

Phase II Investigation Report

St. Louis Park FM, Site 1

Saint Louis Park, MN

MCES No. 804130
SEH No. MCES 123840

May 2013



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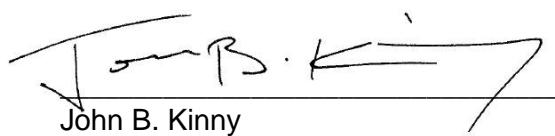
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Executive Summary

Short Elliott Hendrickson Inc. (SEH[®]) was retained by the Metropolitan Council Environmental Services (MCES) to conduct a Phase II Investigation for the project corridor associated with the St. Louis Park FM, Site 1 project (MCES Project No. 804130). The project corridor is located south of Trunk Highway 7 (TH 7) along West Lake Street between Texas Avenue and Louisiana Avenue South in St. Louis Park, Minnesota.

MCES intends to remove, replace, and/or relocate portions of the existing forcemain within the project corridor depicted. The purpose of this Phase II is to investigate the project corridor for the presence, magnitude and extent of contaminated soil, groundwater, and waste that may be encountered during the construction.

Groundwater and soil contamination in the area of the project corridor is primarily impacted by the Reilly Site. Apparent chemical/naphthalene odors and a heavy sheen were observed in groundwater at boring locations MC-1, GP-6, and GP-03. Numerous additional sites upgradient from and adjacent to the project corridor have impacts from past industrial and commercial uses.

Depth to shallow groundwater ranges from approximately 4 to 18 feet bgs. The corresponding water elevations range from approximately 873 to 887 feet amsl. It is assumed the peat and fine grained swamp deposits are somewhat confining. Water bearing sands were encountered perched above moist peat or below the peat with potentiometric elevations above the peat.

Groundwater samples collected from along Lake Street indicate Diesel Range Organics (DRO) and Gasoline Range Organics (GRO) above the Minnesota Department of Health (MDH) generally accepted guideline. Additionally, benzene, naphthalene, 2,4-Dimethylphenol, Dibenzofuran and barium exceed MDH Ground Water Values (GWVs).

The shallow geology of the project corridor includes quaternary outwash and swamp deposits. The outwash and swamp deposits are typically overlain by sandy fill material. Swamp deposits encountered include peat and silt. Debris was not observed in fill material.

Soil impacts above MPCA regulatory limits within the project corridor are DRO, GRO, benzene, naphthalene, benzo(a)pyrene (BaP), 2-Methylnaphthalene, Acenaphthene, Dibenzofuran, Fluoranthene, Fluorene, and Pyrene. The impacts are in borings located northeast of GP-02. No soil sample concentrations above MPCA regulatory limits were detected in samples collected west of boring GP-02, with the exception of arsenic and selenium. The metals concentrations are within naturally occurring ranges and no other contaminants of concern or field indications of impacts were observed in these boring locations.

SEH recommends a Response Action Plan (RAP) be prepared to address impacted soil and groundwater that will be encountered during construction. The RAP should be submitted to the MPCA for approval.

List of Abbreviations

ACM	Asbestos Containing Material
AMSL	Above Mean Sea Level
AST	Above ground Storage Tank
ASTM	American Society for Testing and Materials
Braun	Braun Intertech
bgs	Below Ground Surface
CSAH	County State Aid Highway
DRO	Diesel Range Organics
EPA (USEPA)	Environmental Protection Agency (USEPA)
ESA	Environmental Site Assessment
GIS	Geographical Information System
GRO	Gasoline Range Organics
ICP-MS	Inductively Coupled Mass Spectrometry
MDH	Minnesota Department of Health
mg/kg	milligram per kilogram
MGS	Minnesota Geological Survey
MN	Minnesota
MnDOT	Minnesota Department of Transportation
MPCA	Minnesota Pollution Control Agency
NSP	Northern States Power
OES	Office of Environmental Stewardship
Pace	Pace Analytical Services, Inc.
Peer	Peer Engineering
Phase I	Phase I Environmental Site Assessment
Phase II	Phase II Environmental Subsurface Investigation
PID	Photo-Ionization Detector
ppm	Parts per million
QG	Quantity Generator
RCRA	Resource Conservation and Recovery Act
RCRA 8 Metals	List of 8 RCRA Metals, including Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, and Silver
RCRAGN	Resource Conservation and Recovery Act Generators
SEH	Short Elliott Hendrickson Inc.
SRV	Soil Reference Value
SVOC	Semi-Volatile Organic Compound
TCLP	Toxicity Characteristic Leaching Procedure
TH	Trunk Highway
TH 36	Trunk Highway 36
Tier 1 SRV	Tier 1 Residential SRV
Tier 1 SLV	Tier 1 Soil Leachate Value
Tier 2 SRV	Tier 2 Industrial SRV
VIC	MPCA Voluntary Investigation and Cleanup program
VOC	Volatile Organic Compounds
Xcel	Xcel Energy, Inc. (formerly NSP)
µg/L	Micrograms per Liter

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Phase II Investigation Report

St. Louis Park FM, Site 1

Prepared for the Metropolitan Council of Environmental Services

1.0 Introduction

Short Elliott Hendrickson Inc. (SEH[®]) was retained by the Minnesota Department of Transportation (MCES) to conduct a Phase II Investigation Report (Phase II) for the St. Louis Park FM, Site 1 Project located along West Lake Street in St. Louis Park, Minnesota.

The project limits covered in this report begin at the intersection of West Lake Street and Texas Avenue and continue along West Lake Street for 3,000 feet before stopping approximately 300 feet west of Louisiana Avenue. The area of interest will herein be referred to as “project area”, “project corridor” or “site”. MCES divided the St. Louis Park FM project into three sites: Site 1, Site 1, and Site 3. This Phase II examines the property along West Lake Street as described above. The site location is depicted on **Figure 1, “Site Location Map”**.

The St. Louis Park FM, Site 1 project corridor is located within portions of the Trunk Highway (TH) 7 and Louisiana Avenue interchange project area. Beginning in 2009 SEH completed a Phase I ESA, Phase II Investigation Work Plan and Phase II Investigation for the interchange project. This report utilizes data from previous SEH environmental investigations for the St. Louis Park FM, Site 1 project corridor.

1.1 Purpose

MCES intends to remove, replace, and/or relocate portions of the existing forcemain within the project corridor depicted on **Figure 1**. The purpose of this Phase II is to investigate the project corridor for the presence, magnitude and extent of contaminated soil, groundwater, and waste that may be encountered during the construction. MCES will use the findings from this investigation to manage environmental conditions that may be encountered during construction.

1.2 Scope of Work

This Phase II consisted of the following general tasks:

- Advancing soil borings and soil sampling and analysis.
- Collection of groundwater samples and analysis.
- Review of existing documentation and data regarding identified contamination within the vicinity of the project corridor.
- Preparation of the Phase II report summarizing the geology, field observations, field screening results, site sampling and laboratory analytical results.

2.0 Site Background

2.1 Site Description

Figure 1 illustrates the location of the project corridor. The project corridor is located in the southeast quadrant of Township 117 N, Range 21 W and Section 17. The project is located in the City of St. Louis Park, Minnesota, in Hennepin County.

The proposed project is an urbanized first-tier suburb in the western Twin Cities metropolitan area. The project corridor is located along West Lake Street. The project corridor is generally aligned east-west and is depicted with the proposed alignment and project corridor on Figure 2.

2.2 Site History

A majority of the project corridor is currently and has historically been residential or rural residential land. East of the current alignment of Taft Avenue South was historically a marshy low lying area that received surface discharge from the Reilly site which was located north of the project corridor. Wastes from the Reilly site containing coal tar and its distillation by-products were discharged over the ground surface into a network of ditches that emptied into the peat bog on the eastern portion of the project corridor. The eastern portion of the project corridor also contained a network of railroad spurs that extended to various industrial complexes in the area.

Around the 1950s the western portion of the site changed from rural residential farmsteads to urban residential properties. Additionally, in the 1950s the eastern portion of the project area began transition to more retail and commercial land uses with areas of marshy lowlands remaining.

2.3 Summary of Sites with Identified Environmental Concerns

In preparation for this project SEH completed a Modified Phase I Environmental Site Assessment (ESA) (SEH, April 2013). SEH followed Minnesota Department of Transportation (MnDOT) Office of Environmental Services (OES) guidelines for ranking environmental sites of concern. The Phase I ESA identified four high risk sites within the project corridor. The following definitions of “low”, “medium” and “high” environmental risk are standard categories utilized by MnDOT to rank sites within the a project corridor.

Low Environmental Risk – Hazardous and/or petroleum substances are known or inferred to have been, or are being used, stored or generated on these sites; however, there appear to be “good housekeeping” practices conducted on the site. Good housekeeping practices are defined as proper handling and/or storage of hazardous or petroleum substances. There is also no record or evidence of releases, surface contamination and/or subsurface contamination at the site.

Medium Environmental Risk – Hazardous substances are known or inferred to have been, or are being used, stored, or generated on these sites, and there appears to be “poor housekeeping” practices conducted at the site. Poor housekeeping practices are defined as improper handling and/or storage of hazardous or petroleum substances. All properties that have underground storage tanks (USTs) or above ground storage tanks (ASTs) and leaking underground storage tank (LUST) sites that have received closure from the Minnesota Pollution Control Agency (MPCA) and vehicle repair and maintenance facilities are also considered medium environmental risks.

High Environmental Risk – These are sites where hazardous and/or petroleum substances are known or inferred to have been, or are being used, stored, or generated, and there is a record or evidence that a spill, release, surface contamination and/or subsurface

contamination has occurred. These sites include all active Voluntary Investigative and Cleanup (VIC), Minnesota Environmental Response & Liability Act (MERLA), active LUST sites and all active and inactive dump sites.

The Phase II Investigation and soil boring locations are based on information gathered from the Phase I ESA, location of proposed construction activities, and site access. The Environmental sites of concern investigated for this report are summarized in **Table 1, “Boring Rational and Summary of Results”**. Low, medium, and high risk ranked sites included in the Phase I ESA are presented on **Figure 2 “Phase I ESA Site Features”**.

2.3.1 Phase I File Review Information

SEH reviewed reasonably ascertainable records from standard sources such as publicly-available federal, state, county and/or city records as appropriate to assist in identifying environmental concerns in connection with the project corridor.

3.0 Regional Physical Setting

3.1 Regional Geology

Surficial deposits of the project corridor are characterized by quaternary outwash and swamp deposits. This area is an outwash plain of sandy soils derived from the Des Moines Lobe and Grantsburg Sublobe, Wisconsin glaciation. The surface geology underlying the site consists of varying amounts of fill, outwash, and peat/muck. According to the Surficial Geology of the Twin Cities Metropolitan Area, Minnesota (Meyer 2007), glacial outwash consists of sand, gravelly sand, and gravel. The upper few feet in many places have been reworked by wind action and wind-blown loess is common at less than four feet thick. The peat includes fine grained organic matter and marl (calcareous clay). Deposits of alluvium are also present.

A north and south trending area of organic peat and muck is present on the eastern portion of the project corridor. This area represents a historic topographic low where organic deposits accumulated in marshy areas. Varying thicknesses of fill material overlie the Quaternary deposits. Marshy areas surrounding the intersection of TH 7 and Louisiana Avenue were required to be filled under the Consent Decree for the Reilly site. Historically, surface water locally followed the trend of the marshy areas from the Reilly site located north of the project corridor to the south. The peat and organic silt located at the near TH 7 and Louisiana Avenue interchange is roughly 5 to 20 feet thick. Varying fill material is commonly present at the surface to varying depths.

The depth to bedrock is roughly 75 to 100 feet below ground surface (bgs). The upper most bedrock is the Platteville Formation. The Platteville Formation is defined as fine grained dolostone and limestone underlain by the green, sandy shale of the Glenwood Formation.

3.2 Regional Hydrogeology

Regional and local groundwater flow is east and southeast towards the Mississippi River (MGS, 1989). Shallow groundwater is encountered at around 890 feet above mean sea level (msl). According to groundwater monitoring completed in the area, groundwater in the drift aquifer is flowing east with a slight southerly component.

Groundwater was encountered between 3 and 24 feet bgs in four push probe borings completed by SEH in the vicinity of the project corridor during a subsurface investigation for proposed improvements of the TH 7 and Louisiana Avenue intersection (SEH, January 2012).

4.0 Overview of Phase II Investigation

4.1 Scope and Rationale

The goal of this Phase II is to determine the extent of environmental impacts to soil and review previous groundwater studies along the project corridor. The scope of the subsurface investigation included three hollow stem auger soil borings, four shallow soil samples, and two Geoprobe® borings. The investigation included field screening soil for organic compounds and collecting soil samples for laboratory analysis. The results of soil screening and laboratory analysis are used to evaluate impacts to the site.

4.1.1 Sampling Rationale

SEH routinely collected multiple samples from each boring, including locations with field indications of impacts, at lithological changes, and from the bottom of borings. Rationale for sample analysis included:

- determining the types and magnitudes of environmental impacts,
- determining possible methods and procedures for disposal of impacted soils and groundwater,
- delineating the extent of impacts,

4.2 Field Investigation and Sampling Methods

The following sections describe the methods, procedures, and protocol used to conduct soil borings, soil sampling and groundwater sampling. Whenever possible and practical, the procedures were performed in accordance with MPCA guidelines.

4.2.1 Soil Borings

Soil borings were completed using Hollow Stem Auger (HSA) or Geoprobe® pushprobes. The HSAs were completed by Braun Intertec (Braun) and the Geopros® by Thein Well. Geoprobe® borings were completed in general accordance with the EPA Standard Operating Procedure No. 2050, Model 5400 Geoprobe™ Operation. Each boring was properly abandoned and all borehole cuttings were thin spread and left on-site or containerized in 55 gallon drums for proper disposal. The location of each boring is depicted on **Figure 3**.

4.2.2 Site Soil Sampling

Soil samples were collected using a steel rod and sampler advanced into the ground using hydraulic and/or hammer devices. Samplers were either four or five feet long and two inch diameter hollow, stainless steel cylinders (Macro-Core®). The soil samples were collected in a hollow acetate liner placed into the sampler and extruded once the sample was withdrawn from the subsurface. Soil samples were collected continuously at four or five feet intervals to the termination depth of the boring. A portion of each sample was reserved for description in the field in general conformance with ASTM D 2488. Boring logs were prepared for each soil boring and are included in this report as **Appendix A**.

Soil samples were collected from the spilt spoon or acetate liner for field screening and laboratory analysis. The acetate liner of each sample was cut open and the respective soil samples were placed into the appropriate jars for laboratory analysis. The SEH scientist wore a new clean pair of disposable Nitrile® gloves while collecting each sample. All remaining soil from each sample and borehole cuttings were left on-site. Sample containers were placed in coolers with ice and were protected from sunlight. Samples were transported to Pace Analytical Services (Pace) within 72 hours of their collection with proper chain-of-custody documentation.

Samples were collected for field screening from each boring. Soil samples collected were placed in a new, clean, quart-size, labeled, resealable bag. The bags used for field screening were used for one sample only. Soil clumps were manually agitated and the bags were shaken vigorously at the beginning and end of the headspace development period. The bags were allowed to volatilize in a sunny location. A MiniRae Photo-ionization detector with a 10.6 eV hNu bulb calibrated to Isobutylene was inserted through a small opening in the bag and the highest reading was recorded.

The results of the field screening are documented on the SEH scientists' boring logs. Empty bag readings were recorded periodically throughout the investigation and are considered "background". Empty bags had readings ranging from 0 to 6 ppm.

Boring locations are labeled by the type of soil boring completed. Geoprobe® borings are labeled "GP" and HSAs are labeled "MC". Samples collected were labeled corresponding to the boring number from which they were collected (for example GP-01). Additionally, soil samples were labeled for the depth from which they were collected (in feet bgs). For example, a sample collected from a two foot depth in GP-01 is labeled GP-01-2. Samples were collected from the interval ± 0.5 foot on either side of the noted sample depth.

4.2.3 Groundwater Sampling

Groundwater samples were collected through a PVC screen with polyethylene tubing and a peristaltic pump or check valve. The SEH scientist wore a new clean pair of disposable Nitrile® gloves while collecting each groundwater sample. The groundwater samples were placed in the appropriate laboratory containers in accordance with the laboratory's specifications. The sample containers were placed in a cooler with ice and protected from sunlight. The samples were then transported to Pace within 48 hours of their collection with proper chain-of-custody documentation.

Specific information on samples collected at each site (e.g. total number of samples collected, samples depths, etc.) is included within **Section 5.0 "Phase II Investigation Results"**.

4.3 Chemical Analytical Methodologies

The soil and groundwater samples were analyzed by Pace. The laboratory analytical methods and quality control data are included within the Pace laboratory reports attached as **Appendix B**. Analytes were chosen based on likely impacts.

Soil sample analytes included:

- Diesel Range Organics (Wisconsin Method DRO)
- Gasoline Range Organics (Wisconsin Method GRO)
- Volatile Organic Compounds (EPA Method 8260B)
- Semi-Volatile Organic Compounds (Method 8270C)
- RCRA 8 Metals (EPA Method 7471A/6010B) (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver)
- Arsenic and Selenium (EPA Method 6020)
- Polychlorinated biphenyls (EPA Method 8082)
- Volatile Organic Compounds Toxicity Characteristic Leaching Procedure (EPA Method 6260)

Groundwater analytes included:

- Diesel Range Organics (Wisconsin Method DRO)
- Gasoline Range Organics (Wisconsin Method GRO)
- Volatile Organic Compounds (EPA Method 8260B)
- Semi-Volatile Organic Compounds (Method 8270C)
- Dissolved RCRA 8 Metals (EPA Method 7471/6010B) (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver)

4.4 Notes on Analytical Methods

The following descriptions provide background information and terminology for DRO and GRO. Also included are a discussion of common laboratory contaminants under VOC and SVOC analysis and a comparison of arsenic and selenium EPA Method 6010 versus EPA Method 6020.

4.4.1 DRO

The Wisconsin DRO Method (DRO) is designed to measure mid-range petroleum products such as diesel or fuel oil. This method provides gas chromatographic conditions for the detection of semi-volatile petroleum fractions such as diesel, fuel oil #2, or kerosene. DRO analysis includes hydrocarbons within the range of C10 - C28 and a boiling point range between approximately 170°C and 430°C. Quantitation is based on a direct comparison of the total area within this range to the total area of the Diesel Component Standard. As defined in the method, other organic compounds, including chlorinated hydrocarbons, phenols, phthalate esters, polycyclic aromatic hydrocarbons (PAHs), kerosene, fuel oils and heavier oils are measurable. DRO results include these compounds/products. Components greater than C28 present in products such as motor oils or lubricating oils are detectable under the conditions of the method (Wisconsin DNRa, September 1995).

4.4.2 Silica Gel Clean-up

DRO samples may be complicated by biogenic interference which includes materials such as naturally occurring organics. These concentrations may occur at levels well above the regulatory limit.

Silica gel cleanup is a well established analytical procedure used to separate analytes of different polarity. The majority of “fresh” or non-biodegraded petroleum hydrocarbons are considered non-polar compounds. Depending upon the soil makeup, the majority of the biogenic compounds may be polar or semi-polar in nature. The silica gel cleanup procedure will preferentially remove polar and semi-polar compounds, thus leaving the non-polar or petroleum hydrocarbons behind.

The clean up procedure typically takes place after the initial DRO extract has been analyzed and the client evaluates the results. It is important that the original extract be used to minimize the variable of non-homogeneous samples. The original extract is taken back to the laboratory for cleanup and re-injected along with the batch QC samples. Both “before and after” results are reported (Pace, October 2007).

4.4.3 GRO

The Wisconsin GRO Method (GRO) is designed to measure the concentration of GRO in water and soil. GRO analysis includes hydrocarbon within the range of C6 - C10 and a boiling point range between approximately 60°C and 220°C. (All the chromatographic response falling between the onset of the methyl-tertiary-butyl ether peak and the conclusion of the naphthalene

peak). Quantitation is based on a direct comparison of the total area within this range to the total area of the Gasoline Component Standard. As defined in the method, other organic compounds, including chlorinated solvents, ketones, ethers, mineral spirits, stoddard solvents, and naphthas are measurable. GRO results include these compounds/products: petroleum fractions such as gasoline, stoddard solvent, or mineral spirits.

High levels of heavier petroleum products such as diesel fuel may contain some volatile components producing a response within the retention time range for GRO. Other organic compounds, including chlorinated solvents, ketones, and ethers are measurable. As defined in the method, the GRO results include these compounds (Wisconsin DNRb, September 1995).

4.4.4 Benzo(a)pyrene Equivalents

The MPCA uses Potency Equivalency Factors (PEFs) to evaluate toxicity and to assess risks of carcinogenic PAHs. A PEF is a relative estimate of toxicity of chemical compared to a reference chemical. Benzo(a)pyrene was chosen as a reference chemical for carcinogenic PAHs because its toxicity is well characterized. A table developed by the MPCA used to calculate benzo(a)pyrene equivalents (BaPs) is used in this report. Per MPCA recommendation, “zero” is used for non-detected analytes in the BaP calculation (MPCA June 2011).

4.4.5 Common Laboratory Contaminants

In the process of having samples prepared and tested in a laboratory, contaminants may be introduced in the process resulting in false positive results for select organic compounds (EPA July 2006). These compounds may be introduced into the sample by several different means including, but not limited to, laboratory cleaning methods and sample preparation procedures. If detected in samples, these compounds should be compared to corresponding blank sample results to ensure that the compound detected is a valid detection. Common VOC laboratory contaminants include:

- Methylene chloride
- Acetone
- 2-Butanone
- Chloroform

Common Phthalate contaminants are also identified as potential SVOC laboratory contaminants. These include:

- Bis(2-ethylhexyl)phthalate
- Diethyl phthalate
- Benzyl phthalate
- N-butyl phthalate
- N-octyl phthalate

Once again, sources of contaminants may vary and may include laboratory solvents and water, powdered gloves to laboratory and field equipment (EPA July 2006).

4.5 Quality Assurance/Quality Control

Pace is a Minnesota-certified laboratory and has a current Quality Assurance/Quality Control (QA/QC) manual on file with the Minnesota Department of Health (MDH) and the Minnesota Pollution Control Agency (MPCA). A QA/QC report “Project Narrative” is attached near the beginning of each Pace laboratory report (**Appendix B**). The QA/QC report includes:

- General information

-
- Hold time
 - Sample preparation
 - Initial calibrations
 - Continuing calibrations
 - Surrogates
 - Method blanks
 - Laboratory control spikes
 - Matrix spikes
 - Duplicate samples
 - Additional comments

Data qualifiers have been added to the soil table for results based on review of the data and laboratory QA/QC results.

4.6 Soil and Groundwater Reference Values

To evaluate the magnitude of impacts, analytical results are compared to MPCA Reference Values and MDH Groundwater Values (GWVs). Soil results are compared to MPCA Tier 1 Residential Soil Reference Values (Tier 1 SRVs), Tier 1 Soil Leachate Values (Tier 1 SLVs), and Tier 2 Industrial Soil Reference Values (Tier 2 SRVs). Total concentrations are compared to the excepted guideline of twenty times the EPA hazardous levels for toxicity (40 CFR 261.24 Table 1).

MDH GWVs are used as a proxy for evaluating the impacts to groundwater. However, for construction purposes the actionable limits for groundwater dewatering discharge would be established in the issued discharge permits from the MPCA NPDES/SDS program and/or MCES.

The MPCA has defined limits for DRO and GRO in the Guidance Document c-rem1-01, “Best Management Practices for the Off-Site Reuse of Unregulated Fill” (MPCA, February 2012) of 100 mg/kg in soil.

4.6.1 Notes on Regulatory Levels for Soil

In some cases, metals occurring naturally in soil exceed the action levels set in the Tier 1 SRVs, Tier 1 SLVs and Tier 2 SRVs. According to the MPCA, naturally occurring concentrations of metals in soil are not considered impacted in the absence of a contaminant source. The following summarizes the generalized naturally occurring levels of metals in soil as defined by the EPA in mg/kg or ppm in comparison to the MPCA Tier 1 and Tier 2 SRVs (Source: US EPA Office of Solid Waste and Emergency Response, Hazardous Waste and Land Treatment, SW-874 (April 1983)).

Analyte	Common Range	Average	Tier 1 SRV	Tier 2 SRV
Arsenic	1-50	5	9	20
Barium	100-3000	430	1100	18000
Cadmium	0.01-0.7	0.06	25	200
Chromium	1-1000	100	87	650
Copper	2-100	30	100	9000
Lead	2-200	10	300	700
Mercury	0.01-0.3	0.03	0.5	1.5
Molybdenum	0.2-5	2	None	None
Nickel	5-500	40	560	2500

Analyte	Common Range	Average	Tier 1 SRV	Tier 2 SRV
Selenium	0.1-2	0.3	160	1300
Silver	0.01-5	0.05	160	1300
Zinc	10-300	50	8700	75000

All units reported in mg/kg or ppm.

The values stated above are generalized ranges throughout the United States. Variations occur across soil types and parent material. Site-specific background levels of metals in soil were not evaluated during this investigation. Therefore, Tier 1 and Tier 2 SRVs for metals are used as actionable levels for this project.

4.6.2 Regulatory Action Levels vs. Laboratory Reporting Limits

Tables of analytical results attached to this report include only detected parameters. In some cases, laboratory reporting limits are greater than the Tier 1 SLV regulatory limits. If a parameter is not detected in any sample, the parameter is not included on the attached tables. In most cases, the sample extract could not be concentrated to the routine final volume or the parameter recovery in the laboratory control sample exceeded QC limits resulting in elevated reporting limits. However, these parameters are not considered contaminants of concern for the project corridor and are not discussed further in this report.

In some cases groundwater samples have parameters in which the laboratory reporting limit is greater than the MDH regulatory limit. If a parameter is not detected in a sample it is not considered a contaminant of concern. Therefore they are not discussed further in this report. The MDH GWVs are drinking water standards and are used as a proxy for evaluating impacts to groundwater. For construction purposes the actionable limits for groundwater dewatering discharge would be established in the issued discharge permits from the MPCA NPDES/SDS program and/or MCES.

5.0 Phase II Investigation Results

Geologic logging, field screening and laboratory analyses were conducted on eight borings in 2013 along the project corridor. The following sections detail the results of the investigation. Borings and samples not discussed in these sections displayed no field indications of impacts and are below all guidance levels. The discussion below focuses on concentrations detected above MPCA regulatory guidelines. Detailed information including laboratory reports and boring logs may be found in **Appendix A** and **Appendix B** respectively.

5.1 Overview

Eight boring locations were chosen based on site observations, historical use of the site, and previous data collected. Sites and rankings identified in the Phase I ESA completed by SEH are presented on **Figure 2**. Boring locations are presented **Figure 3**. **Table 1** summarizes the borings, rationale, and results of the investigation.

The following discussion of results is organized by location along the project corridor. The segments discussed include:

- Adjacent to Parking Lot
- West Lake Street

The purpose of this organization is to facilitate conceptual understanding of impacts that may be encountered during construction in these areas.

5.1.1 Results of Geologic and Hydrogeologic Site Investigation

5.1.1.1 Geology

The surface geology underlying the site consists of varying amounts of fill, outwash, and swamp deposits of peat/muck. Some swamp deposits are black, wet fibrous peat while others are light grey to black organic silt deposits. The depth of fill across the site varies from 6 to 9 feet in thickness. Fill material generally consists of fine to coarse grained sand with varying amounts of silt, clay and gravel. Within the project corridor, a highpoint in elevation is located near Pennsylvania Avenue South. Topography slopes to the west and east of Pennsylvania Avenue South. Topography is depicted on **Figure 1**. West of Taft Avenue swamp deposits were not observed.

5.1.1.2 Hydrogeology

Depth to shallow groundwater ranges from approximately 4 to 18 feet bgs. The corresponding water elevations range from approximately 873 to 887 feet amsl. It is assumed the peat and fine grained swamp deposits are somewhat confining. Water bearing sands were encountered perched above moist peat or below the peat with potentiometric elevations above the peat.

5.2 Adjacent to Parking Lot

This portion of the project corridor is located south of a paved parking lot owned by the Saint Louis Park Economic and Development Authority. Historically, the parking lot was a marsh receiving drainage from the Reilly Site. Prior to paving the site, the City reportedly filled the former marsh area under the Superfund consent decree, and calcium hydroxide impacted soil was spread in this area. A passive venting system is currently present to address methane under the parking lot.

5.2.1 Results of the Soil Quality Investigation

Fill is encountered up to 7 feet bgs in this area. Apparent chemical/naphthalene odors were observed in both borings ranging from 1 to 24 feet bgs. A heavy sheen was observed on soil and water between 14 and 24 feet bgs in GP-06.

5.2.2 Soil Analytical Results

Borings MC-1 and GP-6 were completed to 26 and 24 feet bgs, respectively. Four samples (MC-01-04, MC-01-10, GP-06-08, and GP-06-21) were collected from these borings. Select samples were analyzed for DRO, GRO, VOCs, SVOCs, PCBs and RCRA 8 metals.

- VOCs above action levels and their maximum concentrations (in mg/kg) include:
 - Benzene at 0.94 above the Tier 1 SLV of 0.034.
 - Naphthalene at 1120 above the Tier 2 Industrial SRV of 28.
- SVOCs above action levels and their maximum concentrations (in mg/kg) include:
 - Acenaphthene at 78.7 above the Tier 1 SLV.
 - Benzo(a)pyrene (BaP) at 70.8 above the Tier 2 Industrial SRV of 3. BaP equivalents are calculated up to 98.8.
 - Fluorene at 72.4 above the Tier 1 SLV of 47.
- DRO and GRO concentrations of 453 mg/kg and 365 mg/kg exceed the MCPA unrestricted off-site reuse guidance of 100 mg/kg.
- Chromium at 44.5 mg/kg was detected above the Tier 1 SLV of 4.4 mg/kg and has no established SRVs.

Additional detected inorganic compounds, arsenic, barium, cadmium, and lead detections do not exceed action levels. Detected concentrations are summarized on **Table 3**.

5.3 West Lake Street

This portion of the project corridor is located southeast of the parking area within the West Lake Street right-of-way. Historically, the eastern portion of the West Lake Street was a marsh receiving drainage from the Reilly Site. Near boring GP-02 abandoned railroad tracks that historically entered the Reilly site are present.

5.3.1 Results of the Soil Quality Investigation

Fill was encountered up to 9 feet bgs in this area. Apparent chemical/naphthalene odors were observed in boring GP-03 ranging starting at 3 feet bgs. A heavy sheen and thick oily products was observed in soil between 6 and 9 feet bgs in GP-03.

5.3.2 Soil Analytical Results

Borings GP-01 through GP-03 and SB-16 through SB-18 MC-1 were completed to 20 feet bgs. Nine soil samples were collected from these borings. Select samples were analyzed for DRO, GRO, VOCs, SVOCs, PCBs, VOC TCLP and RCRA metals.

- VOCs above action levels and their maximum concentrations (in mg/kg) include:
 - Naphthalene at 2100 above the Tier 2 Industrial SRV of 28.
- SVOCs above action levels and their maximum concentrations (in mg/kg) include:
 - 2-Methylnaphthalene at 211 above the Tier 1 SLRV of 100.
 - Acenaphthene at 346 above the Tier 1 SLV of 50.
 - Benzo(a)pyrene (BaP) at 89.6 above the Tier 2 Industrial SRV of 3. BaP equivalents are calculated up to 126.4 above the Tier 2 Industrial SRV of 3.
 - Dibenzofuran at 169 above the Tier 1 SRV of 104.
 - Fluoranthene at 602 above the Tier 1 SLV of 295.
 - Fluorene at 229 above the Tier 1 SLV of 47.
 - Naphthalene at 849 above the Tier 2 Industrial SRV of 28.
 - Pyrene at 439 above the Tier 1 SLV of 272.
- DRO concentrations up to 19,300 mg/kg exceed the MCPA unrestricted off-site reuse guidance of 100 mg/kg.
- GRO concentrations up to 746 mg/kg exceed the MCPA unrestricted off-site reuse guidance of 100 mg/kg.
- Arsenic up to 10.1 mg/kg above the Tier 1 SRV of 9.0 mg/kg. Selenium at 8.6 mg/kg above the Tier 1 SLV. The metal concentrations are within naturally occurring ranges

Additional inorganic compounds barium, cadmium, chromium and lead detections do not exceed action levels. Detected concentrations are summarized on **Table 4**.

5.4 Groundwater Results

5.4.1 Results of the Groundwater Quality Investigation

Groundwater samples were collected from borings GP-01 and GP-03. Groundwater was encountered between 5 and 9 feet bgs in the borings. Apparent chemical/naphthalene odors were observed in boring GP-03 starting at 03 feet bgs. A heavy sheen was observed on soil and water between 6 and 9 feet bgs in GP-03.

5.4.2 Groundwater Analytical Results

Groundwater samples GP-01-5W and GP-03-9W were collected for laboratory analysis of GRO, DRO, VOCs, SVOCs, and dissolved RCRA metals.

- VOCs above action levels in sample GP-03-9W (in ug/L) include:
 - Benzene at 76.2 above the MDH GWV of 2.0
 - Naphthalene at 6,380 above the MDH GWV of 300
- SVOCs above action levels in sample GP-03-9W (in mg/kg) include:
 - 2,4-Dimethylphenol at 208 above the MDH GWV of 100
 - Dibenzofuran at 56.4 above the MDH GWV of 20.
 - Naphthalene at 3,320 above the MDH GWV of 300.
- DRO concentrations in samples GP-1-5W (273 ug/L) and GP-3-9W (9,320 ug/L) exceed the regulatory guidance of 200 ug/L.
- GRO concentration in sample GP-3-9W (2,160 ug/L) exceeds the regulatory guidance of 200 ug/L.
- Barium concentration in sample GP-01-5W (2,770 ug/L) exceeds the MDH GWV of 2,000 ug/L.

6.0 Conclusions

Groundwater and soil contamination in the area of the project corridor is primarily impacted by the Reilly Site. Apparent chemical/naphthalene odors and a heavy sheen were observed in groundwater at boring locations MC-1, GP-6, and GP-03. Numerous additional sites upgradient from and adjacent to the project corridor have impacts from past industrial and commercial uses.

Depth to shallow groundwater ranges from approximately 4 to 18 feet bgs. The corresponding water elevations range from approximately 873 to 887 feet amsl. It is assumed the peat and fine grained swamp deposits are somewhat confining. Water bearing sands were encountered perched above moist peat or below the peat with potentiometric elevations above the peat.

Groundwater samples collected from along Lake Street indicate DRO and GRO above the MDH generally accepted guideline. Additionally, benzene, naphthalene, 2,4-Dimethylphenol, Dibenzofuran and barium exceed MDH GWVs.

The shallow geology of the project corridor includes Quaternary outwash and swamp deposits. The outwash and swamp deposits are typically overlain by sandy fill material. Swamp deposits encountered include peat and silt. Debris was not observed in fill material.

Soil impacts above MPCA regulatory limits within the project corridor are DRO, GRO, benzene, naphthalene, BaP, 2-Methylnaphthalene, Acenaphthene, Dibenzofuran, Fluoranthene, Fluorene, and Pyrene. The impacts are in borings located northeast of GP-02. No soil sample concentrations above MPCA regulatory limits were detected in samples collected west of boring GP-02, with the exception of selenium. The metals concentrations are within naturally occurring ranges and no other contaminants of concern or field indications of impacts were observed in the boring locations west of GP-02.

7.0 Recommendations

A Response Action Plan (RAP) should be prepared to address impacted soil and water that will be encountered during construction. The RAP should be submitted to the MPCA for approval.

8.0 References

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Glossary for Tables

Abbreviations:

<x - indicates analyte concentration not detected above the laboratory reporting limit (unless otherwise noted)
20x TCLP Haz. Limit - Twenty times higher than the Toxicity Characteristic Leaching Procedure hazardous limit comparing parts per million
bgs - below ground surface
DRO - Diesel Range Organics
GP - geoprobe boring
GRO - Gasoline Range Organics
GW - groundwater
MDH GWV - Minnesota Department of Health Groundwater Value
NA - analysis not performed
NE - standard not established for corresponding analyte
PID - Photoionization Detector
RCRA 8 Metals - Resource Conservation and Recovery Act Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver)
SVOC - Semi-Volatile Organic Compounds
VOC - Volatile Organic Compounds
TCLP - Toxicity Characteristic Leaching Procedure

ft - feet

ppm - parts per million

µg/L - micrograms per liter

mg/kg - milligrams per kilogram

Tier 1 SLV - Minnesota Pollution Control Agency Soil Leaching Values for Residential properties

Tier 1 SRV - Minnesota Pollution Control Agency Soil Reference Values for Residential properties

Tier 2 SRV - Minnesota Pollution Control Agency Soil Reference Values for Industrial properties

EPA TCLP Hazardous Level - Environmental Protection Agency hazardous levels for toxicity (40 CFR 261.24 Table 1)

Exceeds EPA Hazardous Levels
<i>Exceeds Tier 1 Soil Leachate Values</i>
<u>Exceeds Tier 1 Residential SRV</u>
Exceeds Tier 2 Industrial SRV

Notes:

Sample ID is listed as: investigation type - identification number - depth

All depths are reported in feet below ground surface (bgs) and listed after the boring identification number

All PID results are reported in ppm calibrated to isobutylene equivalents with a 10.6 eV bulb

Soil analytical methods include:

PCBs by 8082 (mg/kg)

TCLP VOCs by 8260 (µg/L)

TCLP Metals by 6010 (µg/L)

DRO/GRO by Wisconsin Method (mg/kg)

SVOCs by EPA Method 8270 MDH List (mg/kg)

VOCs by EPA Method 8260 MDH List (mg/kg)

RCRA Metals by 6010/7471 (mg/kg)

Groundwater analytical methods include:

DRO/GRO by Wisconsin Method (µg/L)

VOCs by EPA Method 8260 MDH List (µg/L)

SVOCs by 8270 (µg/L)

RCRA Metals by EPA Method 7471A/6010B/6010/7470, 200.7 or 245.1 (µg/L)

Table 1
Boring Rational and Summary of Results
St. Louis Park FM, Site 1
St. Louis Park, Minnesota

Boring	Site ID	Rationale for Location*	Total Depth (ft bgs)	Elevation (ft msl)	Field Notes	Elevated PID Readings	Soil Sample Depth(s) (ft bgs)	Soil Analytical Summary
GP-01	1	Historically the site was a low lying marsh receiving waste drainage from the Reilly site. Active RCRA SGN.	20	892	Fill to 6' bgs	None	16	No exceedances. Barium in groundwater exceeds MDH GWV.
SB-16			21	909.8	Fill to 7' bgs.	None	2.5	Arsenic = 9.8 mg/kg (within naturally occurring range).
SB-17			24	891	Fill to 7' bgs.	2-4' MAX=27.5 ppm	2.5, 12	Arsenic = 10.1 mg/kg (within naturally occurring range).
GP-02	2	Historically the site was a low lying marsh receiving waste drainage from the Reilly site. No longer registered RCRA VGN with violations.	20	890	Fill to 6' bgs.	7.5-10' MAX=13.1 ppm	8	DRO = 111 mg/kg. Selenium = 8.6 mg/kg.
SB-18			20	891	Fill to 7' bgs.	2-4' MAX=13.0 ppm	3, 8	Arsenic = 9.4 mg/kg. BaP and BaP equivalent exceed Tier 2 SRV at 3' sample.
MC-01	3	Historically the site was a low lying marsh receiving waste drainage from the Reilly site. Calcium hydroxide impacted soil was spread on-site. A passive venting system is currently present to address methane under the parking lot. Closed VIC sites VP10880 and VP20470.	26	892	Naphthalene odor at 5' bgs. Fill to 6' bgs.	N/A	4, 10	DRO up to 453 mg/kg. GRO up to 365 mg/kg. Naphthalene up to 1120 mg/kg, BaP up to 70.8 mg/kg, and BaP equivalents up to 98.4 mg/kg in exceedance of the Tier 2 SRV. Additional VOCs and SVOCs exceed Tier 1 SLV.
GP-06			24	891	Naphthalene odor at 1' bgs. Fill from 1-6' bgs.	20-22' MAX=176 ppm	8, 21	Naphthalene up to 637 mg/kg, BaP up to 9.7 mg/kg, and BaP equivalents up to 12.6 mg/kg in exceedance of the Tier 1 SRV.
GP-03	4	Historic chemical manufacturer, closed LUST/VIC, inactive dump, active AgVIC	20	891	Naphthalene odor at 3' bgs and heavy sheen on soil at 6' bgs. Fill from 0-9' bgs.	9' Max = 76.5ppm	4, 8	DRO up to 19,300 mg/kg. GRO up to 746 mg/kg. Naphthalene up to 637 mg/kg, BaP up to 9.7 mg/kg, and BaP equivalents up to 126.4 mg/kg in exceedance of the Tier 1 SRV. Additional SVOCs exceed regulatory limits. VOCs and SVOCs in groundwater exceed MDH GWVs.

*Modified Phase I Environmental Site Assessment, St. Louis Park FM Site 1, SEH 2013

Table 2
Photoionization Detector (PID) Results
St. Louis Park FM, Site 1
Saint Louis Park, Minnesota

Depth	2013						2012	2011
	GP-1	GP-2	GP-3	SB-16	SB-17	SB-18	MC-1	GP-6
0 to 2.5	7.7	7.4	11.2	0.4	27.5	13.0	NA	6.6
2.5 to 5	1.9	4.4	14.2	0.5	20.9	13.0	NA	6.6
5 to 7.5	4.1	12.9	37.1	0.4	20.9	6.5	NA	58.9
7.5 to 10	4.1	13.1	76.5	0.3	17.3	14.0	NA	38.6
10 to 12.5	2.1	11.2	24.4	0.5	17.3	10.8	NA	105.0
12.5 to 15	1.3	9.1	22.3	0.5	19.4	8.0	NA	27.0
15 to 17.5	1.4	10.7	25.0	0.4	13.7	8.0	NA	83.1
17.5 to 20	0.9	12.6	12.5	0.4	9.5	11.8		60.8
20 to 22.5				0.5	9.5	9.0		176.0
22.5 to 25					9.5			80.3

Notes:

All headspace results are reported in parts per million (ppm)
recorded on a 10.6eV bulb MiniRAE PID calibrated to Isobutylene.

All depths are reported in feet below ground surface.

Bold results are greater than 10 ppm.

Empty bag readings are between 4 and 6 ppm.

NR - No recovery.



Table 3
2011 and 2012 Soil Analytical Results
St. Louis Park FM, Site 1
Saint Louis Park, Minnesota

Parameter	Tier 1 SLV	20X TCLP Haz. Limit	Tier 1 Residential SRV	Tier 2 Industrial SRV	GP-06-08	GP-06-21	MC-01-04	MC-01-10
Other (mg/kg)								
Diesel Range Organics	NE	NE	NE	NE	NA	NA	453	131
Gasoline Range Organics	NE	NE	NE	NE	NA	NA	46.9	365
Metals (mg/kg)								
Arsenic	15.1	100	9	20	2.2	3.9	3.4	4.2
Barium	842	2000	1100	18000	30.7	57.9	19.7	21.5
Cadmium	4.4	20	25	200	0.061	<0.038	<0.049	0.27
Chromium	18	100	NE	NE	10	44.5	4.5	5.1
Lead	525	100	300	700	14.6	13.2	4.6	9.7
Mercury	1.6	4	0.5	1.5	<0.017	<0.018	<0.028	<0.034
Selenium	1.5	20	160	1300	<0.74	<0.57	<0.73	<0.99
Silver	3.9	100	160	1300	<0.5	<0.38	<0.49	<0.66
VOCs (mg/kg)								
1,2,4-Trimethylbenzene	NE	NE	8	25	1.7	2.6	0.90	2.0
1,3,5-Trimethylbenzene	NE	NE	3	10	0.81	1.2	<0.74	<1.9
Benzene	0.034	10	6	10	<0.23	<0.21	0.94	0.88
Ethylbenzene	4.7	NE	200	200	<0.56	1.5	<0.74	<1.9
Naphthalene	7.5	NE	10	28	248	637	113	1120
p-Isopropyltoluene	NE	NE	NE	NE	<0.56	0.55	<0.74	<1.9
Xylene (Total)	45	NE	45	130	<1.7	4.8	<2.2	<5.6
SVOCs (mg/kg)								
1-Methylnaphthalene	NE	NE	NE	NE	<7.3	23.5	NA	NA
2-Methylnaphthalene	NE	NE	100	369	<7.3	44.1	<23.9	50.1
Acenaphthene	NE	NE	1200	5260	21.7	59.1	<23.9	78.7
Anthracene	942	NE	7880	45400	12	20.2	33.5	20.7
Benz(a)anthracene	NE	NE	NE	NE	12.9	18.9	79.8	22.6
Benzo(a)pyrene	NE	NE	2	3	9.7	<17.6	70.8	11.3
Benzo(b)fluoranthene	NE	NE	NE	NE	14.5	<17.6	86.7	17.5
Benzo(g,h,i)perylene	NE	NE	NE	NE	<7.3	<17.6	42.7	<6.1
Benzo(k)fluoranthene	NE	NE	NE	NE	<7.3	<17.6	41.7	6.6
Chrysene	NE	NE	NE	NE	16.7	18.1	86.0	19.4
Dibenzofuran	NE	NE	104	810	7.9	35.4	<23.9	51.3
Fluoranthene	295	NE	1080	6800	51.8	78.8	174	113
Fluorene	47	NE	850	4120	12	44.4	<23.9	72.4
Indeno(1,2,3-cd)pyrene	NE	NE	NE	NE	<7.3	<17.6	39.1	<6.1
Naphthalene	7.5	NE	10	28	13.4	154	<23.9	180
Phenanthrene	NE	NE	NE	NE	33.9	151	114	203
Pyrene	272	NE	890	5800	37.3	58.7	158	82.7
Benzo(a)pyrene Equivalents	NE	NE	2	3	12.6	2.1	98.8	17.4
PCBs (mg/kg)								
All PCBs	2.1	50	1.2	8	NA	NA	<0.48	<0.61

Notes:

<x: Indicates analyte concentration not detected above the laboratory reporting limit.

NA: Analysis not performed

NE: Standard not established for this analyte

mg/kg - milligrams per kilogram

Exceeds 20 X the TCLP hazardous limit (EPA)
Exceeds Tier 1 Soil Leachate Values (MPCA)
Exceeds Tier 1 Residential Soil Reference Value (MPCA)
Exceeds Tier 2 Industrial Soil Reference Value (MPCA)

Table 4
2013 Soil Analytical Results
St. Louis Park FM, Site 1
Saint Louis Park, Minnesota

Parameter	20X TCLP Haz. Limit	Tier 1 SLVs	Tier 1-2 Residential SRVs	MPCA Tier 2 Industrial SRVs	GP-1-16	GP-2-8	GP-3-4	GP-3-8	SB-16-2.5	SB-17-12	SB-17-2.5	SB-18-3	SB-18-8
Other (mg/kg)													
Gasoline Range Organics	NE	NE	NE	NE	<6.3	<24.5	71.8	746	<5.4	<7.3	<5.5	<5.5	<50.1
Diesel Range Organics	NE	NE	NE	NE	<10.0	111	2130	19300	21.9	<12.0	<8.6	53.3	51.8
Metals 6010 (mg/kg)													
Arsenic	100	15.1	9	20	5.8	5.7	4.9	5.0	9.8	3.7	10.1	9.4	<4.8
Barium	2000	842	1100	18000	42.4	48.7	24.8	19.5	35.1	77.3	35.8	24.7	42.6
Cadmium	20	4.4	25	200	<0.15	<0.63	0.14	<0.14	<0.14	0.81	<0.13	<0.15	<0.72
Chromium	100	NE	NE	NE	8.4	<2.1	8.9	6.2	6.7	13.0	6.5	7.5	<2.4
Lead	100	525	300	700	4.4	<4.2	41.3	1.7	2.5	8.3	2.8	16.1	<4.8
Selenium	20	1.5	160	1300	1.2	8.6	<0.59	1.0	<0.70	<0.99	<0.66	<0.77	<3.6
Silver	100	3.9	160	1300	<0.51	<2.1	<0.39	<0.48	<0.46	<0.66	<0.44	<0.51	<2.4
Metals 7471 (mg/kg)													
Mercury	4	1.6	.5	1.5	0.028	<0.085	0.022	<0.020	<0.019	<0.026	<0.021	<0.021	<0.094
VOCs (mg/kg)													
1,2,4-Trimethylbenzene	NE	NE	8	25	<0.064	<0.24	<0.053	6.6	<0.053	<0.073	<0.053	<0.058	<0.49
Naphthalene	NE	7.5	10	28	<0.26	<0.95	<0.21	2100	<0.21	<0.29	<0.21	<0.23	<2.0
SVOCs (mg/kg)													
2-Methylnaphthalene	NE	NE	100	369	<0.42	<1.5	<2.7	211	<0.34	<0.48	<0.35	<0.35	<1.6
Acenaphthene	NE	50	1200	5260	<0.42	<1.5	25.7	346	<0.34	<0.48	<0.35	<0.35	<1.6
Anthracene	NE	942	7880	45400	<0.42	<1.5	15.5	112	<0.34	<0.48	<0.35	0.54	<1.6
Benz[a]anthracene	NE	NE	NE	NE	<0.42	<1.5	14.9	134	0.41	<0.48	<0.35	2.5	<1.6
Benz[a]pyrene	NE	NE	2	3	<0.42	<1.5	11.7	89.6	0.68	<0.48	<0.35	3.7	<1.6
Benz[b]fluoranthene	NE	NE	NE	NE	<0.42	<1.5	18.1	134	0.86	<0.48	<0.35	5.1	<1.6
Benz[g,h,i]perylene	NE	NE	NE	NE	<0.42	<1.5	5.7	41.6	0.55	<0.48	<0.35	3.0	<1.6
Benz[k]fluoranthene	NE	NE	NE	NE	<0.42	<1.5	6.3	52.8	0.35	<0.48	<0.35	2.2	<1.6
Chrysene	NE	NE	NE	NE	<0.42	<1.5	19.5	116	0.45	<0.48	<0.35	3.1	<1.6
Dibenz[a,h]anthracene	NE	NE	NE	NE	<0.42	<1.5	<2.7	<17.7	<0.34	<0.48	<0.35	0.73	<1.6
Dibenzofuran	NE	NE	104	810	<0.42	<1.5	12.8	169	<0.34	<0.48	<0.35	<0.35	<1.6
Fluoranthene	NE	295	1080	6800	<0.42	<1.5	55.1	602	0.36	<0.48	<0.35	3.8	<1.6
Fluorene	NE	47	850	4120	<0.42	<1.5	22.6	229	<0.34	<0.48	<0.35	<0.35	<1.6
Indeno[1,2,3-cd]pyrene	NE	NE	NE	NE	<0.42	<1.5	5.2	35.9	0.43	<0.48	<0.35	2.6	<1.6
Isophorone	NE	.16	NE	NE	<0.42	<1.5	<2.7	<17.7	<0.34	<0.48	<0.35	<0.35	<1.6
Naphthalene	NE	7.5	10	28	<0.42	<1.5	<2.7	849	<0.34	<0.48	<0.35	<0.35	<1.6
Phenanthrene	NE	NE	NE	NE	<0.42	<1.5	61.1	857	<0.34	<0.48	<0.35	0.89	<1.6
Pyrene	NE	272	890	5800	<0.42	<1.5	47.3	439	0.47	<0.48	<0.35	3.3	<1.6
BaP equivalent	NE	NE	2	3	NA	NA	17.6	126.4	0.9	NA	NA	5	NA
TCLP VOC (ug/L)													
Benzene	10	NE	NE	NE	NA	NA	NA	<50.0	NA	NA	NA	NA	NA
2-Butanone (MEK)	NE	NE	NE	NE	NA	NA	NA	<200	NA	NA	NA	NA	NA
Carbon tetrachloride	NE	NE	NE	NE	NA	NA	NA	<200	NA	NA	NA	NA	NA
Chlorobenzene	NE	NE	NE	NE	NA	NA	NA	<50.0	NA	NA	NA	NA	NA
Chloroform	NE	NE	NE	NE	NA	NA	NA	<50.0	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NE	NE	NE	NE	NA	NA	NA	<50.0	NA	NA	NA	NA	NA
1,1-Dichloroethene	NE	NE	NE	NE	NA	NA	NA	<50.0	NA	NA	NA	NA	NA
1,2-Dichloroethane	NE	NE	NE	NE	NA	NA	NA	<50.0	NA	NA	NA	NA	NA
Tetrachloroethylene	NE	NE	NE	NE	NA	NA	NA	<50.0	NA	NA	NA	NA	NA
Trichloroethylene	NE	NE	NE	NE	NA	NA	NA	<50.0	NA	NA	NA	NA	NA
Vinyl chloride	NE	NE	NE	NE	NA	NA	NA	<20.0	NA	NA	NA	NA	NA
PCBs (mg/kg)													
All PCBs	NE	NE	NE	NE	NA	NA	NA	NA	All Non-Detect	NA	NA	All Non-Detect	All Non-Detect

Notes:
 <x: indicates analyte concentration not detected above the laboratory reporting limit
 NA: Analysis not performed
 NE: Standard not established for this analyte
 mg/kg - milligrams per kilogram

Exceeds 20 X the TCLP hazardous limit (EPA)	
Exceeds Tier 1 Soil Leachate Values (MPCA)	
Exceeds Tier 1 Residential Soil Reference Value (MPCA)	
Exceeds Tier 2 Industrial Soil Reference Value (MPCA)	



Table 5
Groundwater Analytical Results
St. Louis Park FM, Site 1
Saint Louis Park, Minnesota

Parameter	MDH Groundwater Value	GP-1-5W	GP-3-9W
Other (ug/L)			
Gasoline Range Organics	NE	<100	2160
Diesel Range Organics	NE	273	9230
Metals (ug/L)			
Arsenic	NE	99.9	<20.0
Barium	2000	2770	151
Cadmium	4	<3.0	<3.0
Chromium	NE	<10.0	<10.0
Lead	NE	<10.0	<10.0
Selenium	30	<20.0	<20.0
Silver	30	<10.0	<10.0
Metals (ug/L)			
Mercury	NE	<0.20	<0.20
VOCs (ug/L)			
1,2,4-Trimethylbenzene	NE	2.3	22.6
1,2-Dibromoethane (EDB)	.004	<1.0	<1.0
1,3,5-Trimethylbenzene	100	<1.0	2.2
Benzene	2	<1.0	76.2
Ethylbenzene	50	<1.0	29.3
Hexachloro-1,3-butadiene	1	<5.0	<5.0
Isopropylbenzene (Cumene)	300	<1.0	2.6
Naphthalene	300	<4.0	6380
Toluene	200	<1.0	2.5
Vinyl chloride	0.2	<0.40	<0.40
Xylene (Total)	300	<3.0	74.3
cis-1,3-Dichloropropene	2	<4.0	<4.0
trans-1,3-Dichloropropene	2	<4.0	<4.0
SVOCs (ug/L)			
1,4-Dichlorobenzene	10	<10.3	<10.4
2,4-Dimethylphenol	100	<10.3	208
2,4-Dinitrophenol	10	<10.3	<10.4
2-Methylnaphthalene	NE	<10.3	220
3&4-Methylphenol	3	<20.6	<20.8
3,3'-Dichlorobenzidine	0.8	<10.3	<10.4
Acenaphthene	400	<10.3	128
Dibenzofuran	20	<10.3	56.4
Fluoranthene	300	<10.3	10.6
Fluorene	300	<10.3	67.4
Hexachloro-1,3-butadiene	1	<10.3	<10.4
Hexachlorobenzene	.2	<10.3	<10.4
Naphthalene	300	<10.3	3320
Pentachlorophenol	1	<20.6	<20.8
Phenanthrene	NE	<10.3	68.6
bis(2-Chloroethyl) ether	0.3	<10.3	<10.4
bis(2-Ethylhexyl)phthalate	6	<10.3	<10.4

Notes:

All results reported in micrograms per liter (ug/L)

GWV - Minnesota Department of Health Groundwater Values

Concentration above the MDH GWV

NE - No HRL established

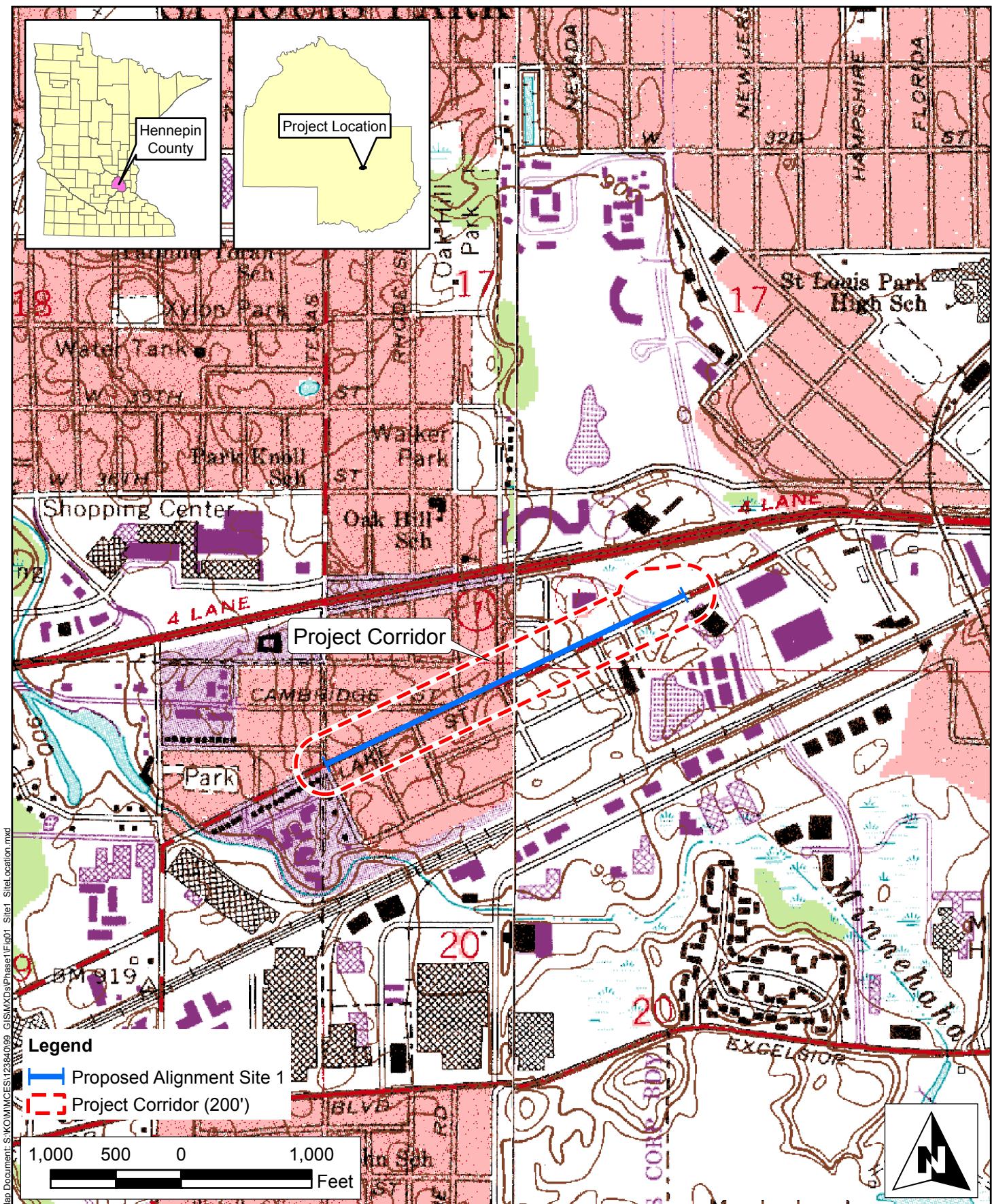
* No HRL is established for DRO and GRO, the generally accepted guideline for the action level is 200 mg/kg

List of Figures

Figure 1 – Site Location

Figure 2 – Phase I ESA Site Features

Figure 3 – Boring Locations



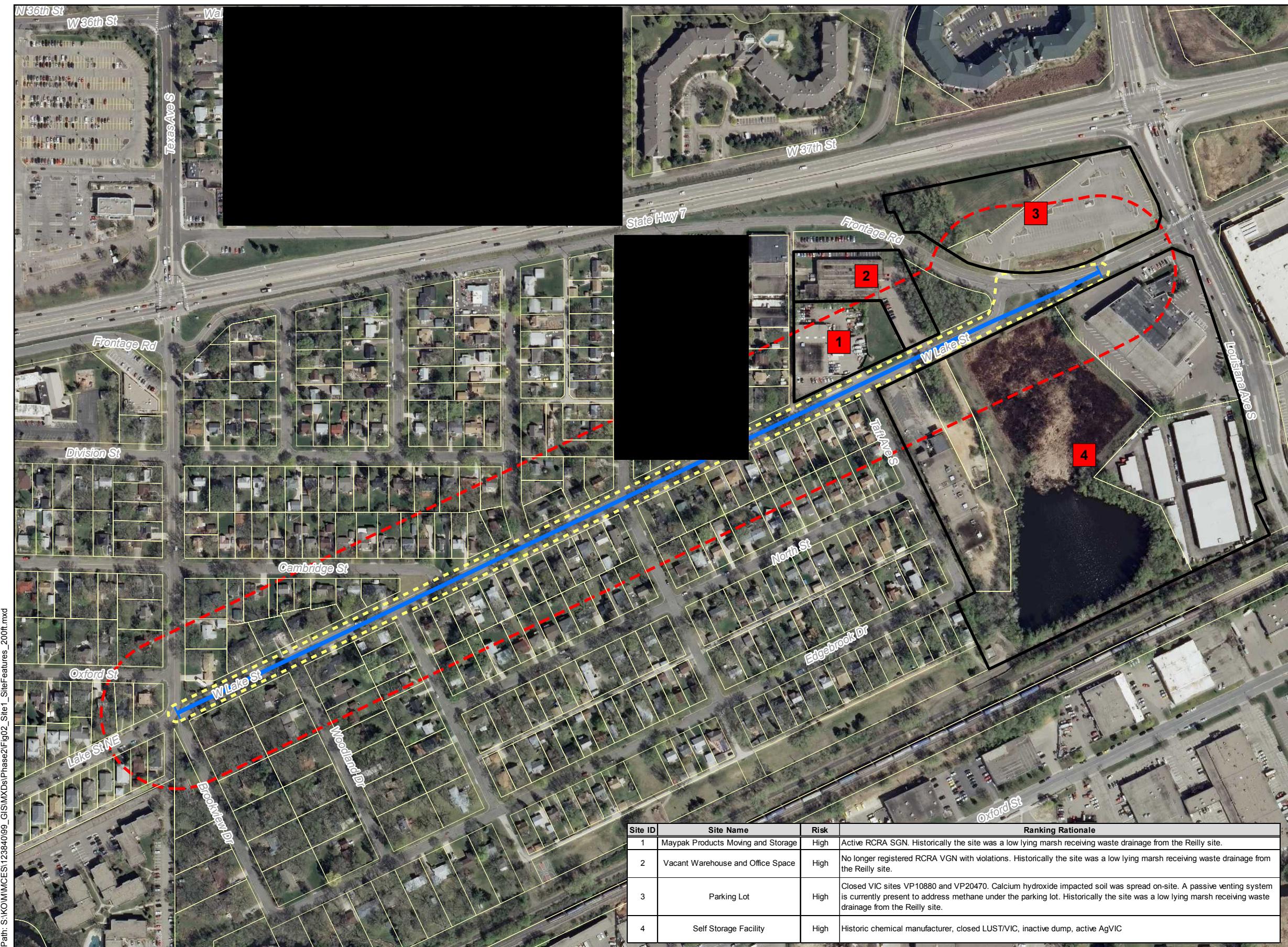
SEH
3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110
PHONE: (651) 490-2000
FAX: (651) 490-2150
WATTS: 800-325-2055
www.sehinc.com

Project: MCES 123840
Print Date: 05/02/2013
Map by: srh
Projection: NAD 83, UTM zone 15
Source: USGS, Mn/DOT, SEH

St. Louis Park FM: Site 1

Environmental Site Assessment
St. Louis Park, Minnesota

Figure
1



3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110
PHONE: (651) 490-2000
FAX: (651) 490-2150
WATTS: 800-325-2055
www.sehinc.com

Project: MCES 123840
Print Date: 05/09/2013

Map by: bpt
Projection: NAD83 UTM 15N
Source: Mn/DOT, SEH Inc., St. Louis Park
Background: 2010 MnDNR

St. Louis Park FM: Site 1

Phase 2 Environmental Site Assessment

St. Louis Park, Minnesota

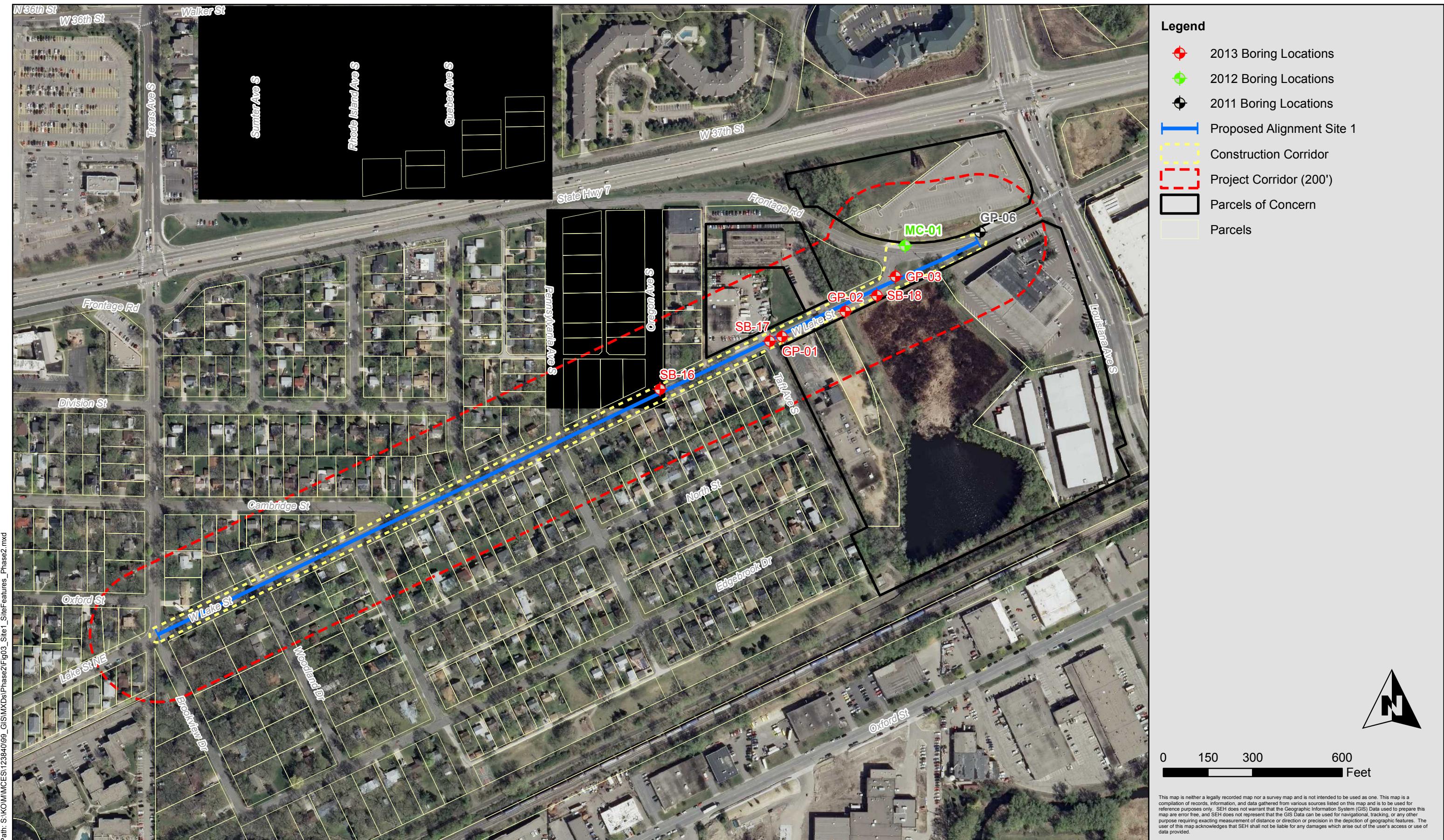
Legend	
—	Proposed Alignment Site 1
—	Construction Corridor
—	Project Corridor (200')
—	Parcels of Concern
	Parcels
Environmental Risk Level	
■	High
●	Medium
▲	Low

This map is neither a legally recorded map nor a survey map and is not intended to be used as one. This map is a compilation of records, information, and data gathered from various sources listed on this map and is to be used for reference purposes only. SEH does not warrant that the Geographic Information System (GIS) Data used to prepare this map are error free, and SEH does not represent that the GIS Data can be used for navigational, tracking, or any other purpose requiring exacting measurement of distance or direction or precision in the depiction of geographic features. The user of this map acknowledges that SEH shall not be liable for any damages which arise out of the user's access or use of data provided.

Phase I ESA
Site Features



Figure
2



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ST. PAUL, MN 55110
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WATS: 800-325-2055
www.sehinc.com

Project: MCES 123840
Print Date: 05/09/2013

Map by: bpt
Projection: NAD83 UTM 15N
Source: Mn/DOT, SEH Inc., St. Louis Park
Background: 2010 MnDNR

St. Louis Park FM: Site 1

Phase 2 Environmental Site Assessment

St. Louis Park, Minnesota

Boring
Locations

Figure
3

Appendix A

Boring Logs



SEH Inc.
3535 Vadnais Center Drive
St. Paul, MN 55110
Telephone: 651-490-2000
Fax: 651-490-2150

BORING NUMBER GP-01

PAGE 1 OF 1

CLIENT MCES

PROJECT NAME St. Louis Park FM

PROJECT NUMBER SEH No. 123480

PROJECT LOCATION St. Louis Park, MN

DATE/TIME STARTED 4/10/13 900 COMPLETED 4/10/13 1015

GROUND ELEVATION

HOLE SIZE 2"

DRILLING CONTRACTOR Thein Well - B. Hilbrands

GROUND WATER LEVELS:

DRILLING METHOD Geoprobe SAMPLING METHOD Macrocore

AT TIME OF DRILLING 5.0 ft

LOGGED BY J. Kinny

CHECKED BY J. Kinny

AT END OF DRILLING ---

NOTES Elevation: 891.793

AFTER DRILLING 4.8 ft

DEPTH (ft)	SAMPLE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	10.6 eV PID (ppm)
0						
1	80		SM	0.4	Asphalt	
				2.0	Loose, moist, dark brown, silty SAND with gravel (Fill)	7.7
5			SW-SM	5.0	Loose, moist, dark brown, well graded SAND with silt and gravel (Fill)	1.9
10			SM	6.0	Loose, moist, dark brown, silty SAND with gravel (Fill)	4.1
15			SW-SM	12.0	Loose, moist, grey, well graded SAND with silt, trace gravel (Outwash)	4.1
20			PT	15.0	Moist, dark brown to black, fibric PEAT (Swamp deposit)	2.1
			OL		Soft, moist, grey, organic SILT (Swamp deposit)	1.3
			SW	19.0	Loose, moist, grey, well graded SAND (Outwash)	1.4
				20.0	End of Boring	0.9



SEH Inc.
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St. Paul, MN 55110
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Fax: 651-490-2150

BORING NUMBER GP-02

PAGE 1 OF 1

CLIENT MCES

PROJECT NAME St. Louis Park FM

PROJECT NUMBER SEH No. 123480

PROJECT LOCATION St. Louis Park, MN

DATE/TIME STARTED 4/10/13 1020 COMPLETED 4/10/13 1115

GROUND ELEVATION

HOLE SIZE 2"

DRILLING CONTRACTOR Thein Well - B. Hilbrands

GROUND WATER LEVELS:

DRILLING METHOD Geoprobe SAMPLING METHOD Macrocore

AT TIME OF DRILLING 5.5 ft

LOGGED BY J. Kinny

CHECKED BY J. Kinny

AT END OF DRILLING ---

NOTES Elevation: 890.380

AFTER DRILLING NA

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	10.6 EV PID (ppm)
0					Asphalt	
1	80			0.7	Loose, moist, brown, well graded SAND with a little silt (Fill)	7.4
5						4.4
2	90		SW	6.0		
			SW-SM	7.5	Loose, wet, grey, well graded SAND with silt and trace gravel (Outwash)	12.9
			PT		Loose, moist, dark brown, fibric PEAT (Swamp deposit)	13.1
10						11.2
3	60		PT	12.5	Loose, moist, black, hemic PEAT (Swamp deposit)	9.1
			PT	14.5	Loose, moist, black, sapric PEAT (Swamp deposit)	10.7
15						
4	100		PT			12.6
20				20.0	End of Boring	



SEH Inc.
3535 Vadnais Center Drive
St. Paul, MN 55110
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BORING NUMBER GP-03

PAGE 1 OF 1

CLIENT MCES

PROJECT NAME St. Louis Park FM

PROJECT NUMBER SEH No. 123480

PROJECT LOCATION St. Louis Park, MN

DATE/TIME STARTED 4/10/13 1120 COMPLETED 4/10/13 1215

GROUND ELEVATION

HOLE SIZE 2"

DRILLING CONTRACTOR Thein Well - B. Hilbrands

GROUND WATER LEVELS:

DRILLING METHOD Geoprobe SAMPLING METHOD Macrocore

AT TIME OF DRILLING 9.0 ft

LOGGED BY J. Kinny

CHECKED BY J. Kinny

AT END OF DRILLING ---

NOTES Elevation: 890.802

AFTER DRILLING 8.5 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	10.6 EV PID (ppm)
0					Loose, moist, dark brown, silty SAND with trace roots (Topsoil fill)	
1		80	SM	1.0	Loose, moist, brown, well graded SAND with silt (Fill)	11.2
5			SW-SM	3.0	Loose, moist, black and grey, well graded SAND with silt (Fill) Slight napthalene odor 3-6 feet bgs Strong napthalene odor 6-9 feet bgs Sheen on soil and thick oily free product	14.2
2	75		SW-SM	9.0	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	37.1
10			PT		Loose, wet, dark brown to black fibric PEAT sheen on water (Swamp deposit)	76.5
15		50	PT			24.5
20	60		OL	18.5 20.0	Soft, wet, grey and black, organic SILT (Swamp deposit)	22.3 25 12.5
					End of Boring	



SEH Inc.
3535 Vadnais Center Drive
St. Paul, MN 55110
Telephone: 651-490-2000
Fax: 651-490-2150

BORING NUMBER SB-16

PAGE 1 OF 1

CLIENT Metropolitan Council of Environmental Services

PROJECT NAME St. Louis Park Forcemain, Site 1

PROJECT NUMBER MCES 123840

PROJECT LOCATION West Lake Street.

DATE/TIME STARTED 4/2/13 900

COMPLETED 4/2/13 930

GROUND ELEVATION

HOLE SIZE 4'

DRILLING CONTRACTOR Braun Intertech

GROUND WATER LEVELS:

DRILLING METHOD 3 1/4 HSA

SAMPLING METHOD Split Spoon

AT TIME OF DRILLING ---

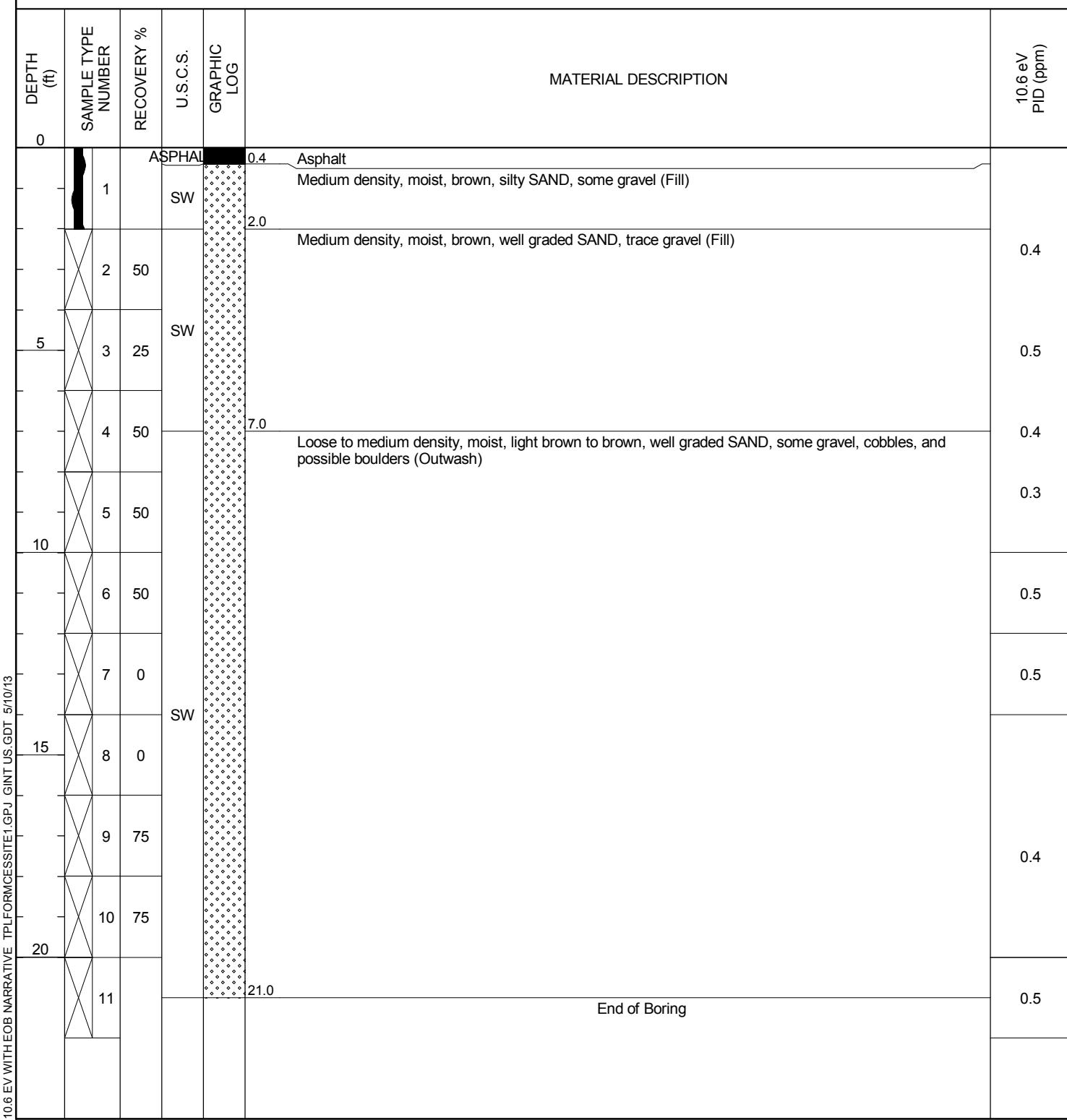
LOGGED BY Greg Ahl

CHECKED BY Greg Ahl

AT END OF DRILLING ---

NOTES No visual contamination or noticeable odors were evident

AFTER DRILLING ---





SEH Inc.
3535 Vadnais Center Drive
St. Paul, MN 55110
Telephone: 651-490-2000
Fax: 651-490-2150

BORING NUMBER SB-17

PAGE 1 OF 1

CLIENT Metropolitan Council of Environmental Services

PROJECT NAME St. Louis Park Forcemain, Site 1

PROJECT NUMBER MCES 123840

PROJECT LOCATION West Lake Street.

DATE/TIME STARTED 4/2/13 1015 COMPLETED 4/2/13 1100

GROUND ELEVATION

HOLE SIZE 4'

DRILLING CONTRACTOR Braun Intertech

GROUND WATER LEVELS:

DRILLING METHOD 3 1/4 HSA SAMPLING METHOD Split Spoon

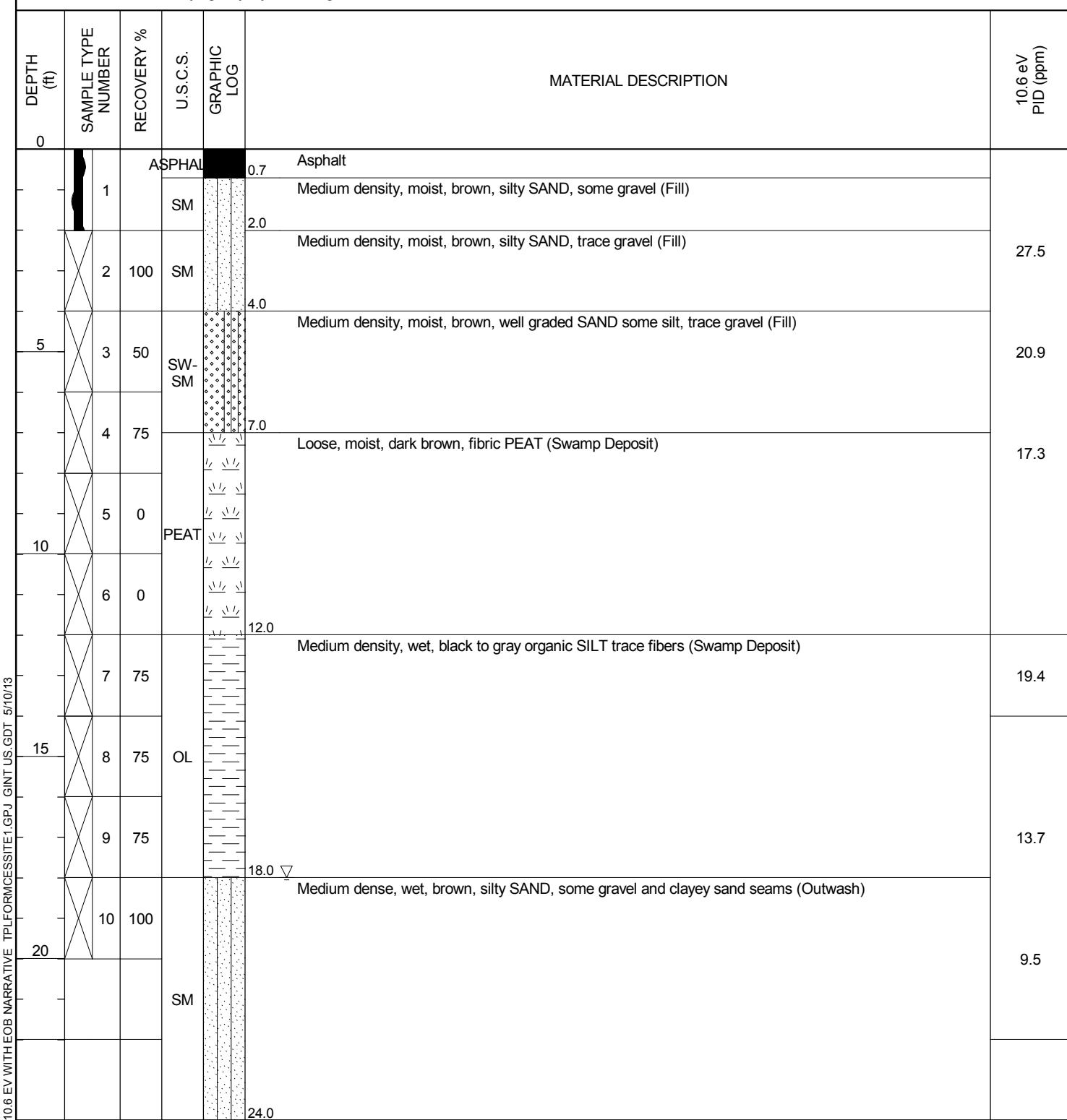
AT TIME OF DRILLING 18.0 ft

LOGGED BY Greg Ahl CHECKED BY Greg Ahl

AT END OF DRILLING ---

NOTES Peat and underlying clay layer had organic odor

AFTER DRILLING ---





SEH Inc.
3535 Vadnais Center Drive
St. Paul, MN 55110
Telephone: 651-490-2000
Fax: 651-490-2150

BORING NUMBER SB-18

PAGE 1 OF 1

CLIENT Metropolitan Council of Environmental Services

PROJECT NAME St. Louis Park Forcemain, Site 1

PROJECT NUMBER MCES 123840

PROJECT LOCATION West Lake Street.

DATE/TIME STARTED 4/2/13 1130 COMPLETED 4/2/13 1200

GROUND ELEVATION

HOLE SIZE 4'

DRILLING CONTRACTOR Braun Intertech

GROUND WATER LEVELS:

AT TIME OF DRILLING 16.0 ft

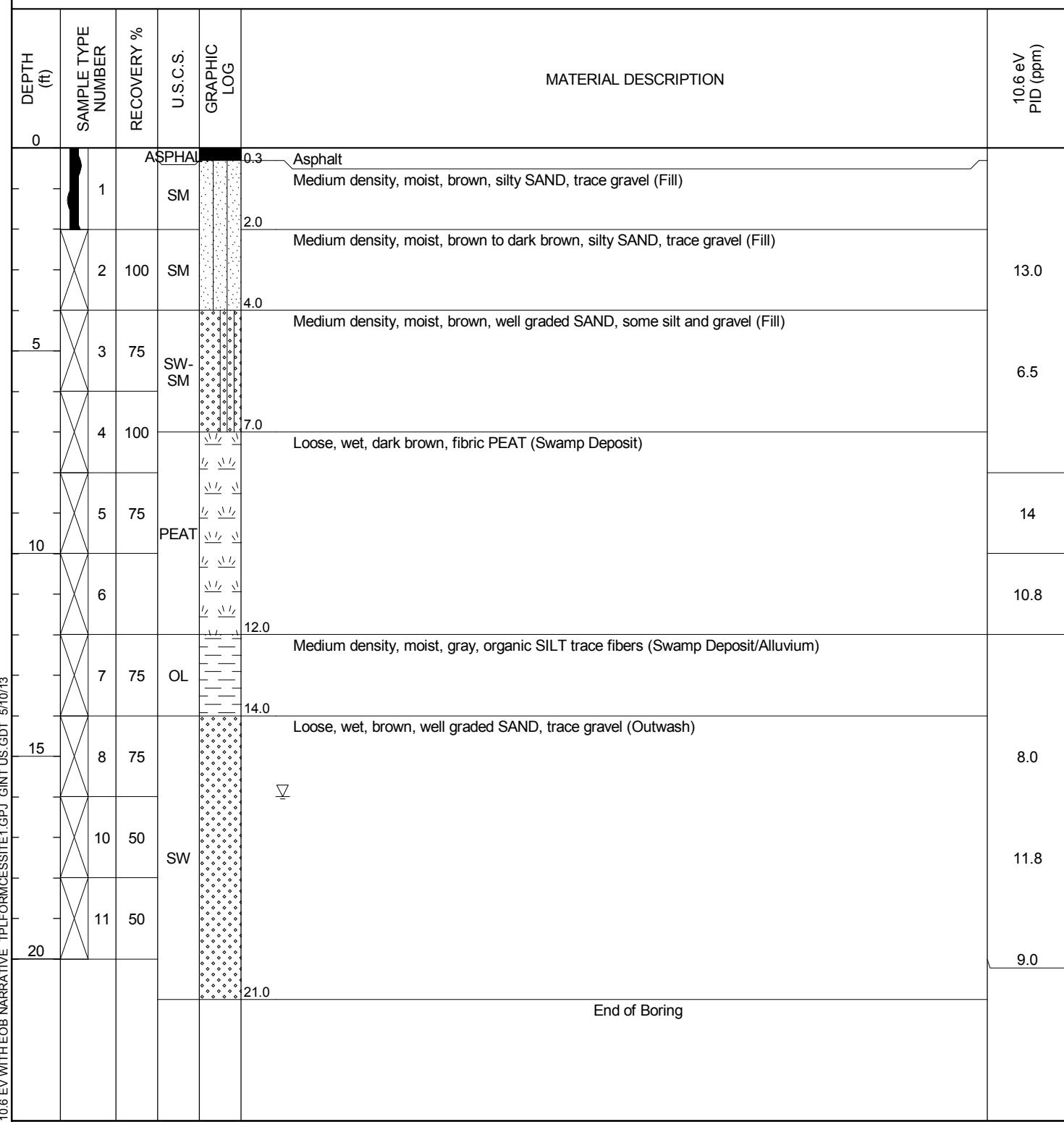
DRILLING METHOD 3 1/4 HSA SAMPLING METHOD Split Spoon

AT END OF DRILLING ---

LOGGED BY Greg Ahl CHECKED BY Greg Ahl

AFTER DRILLING ---

NOTES Peat and underlying clay layer had organic odor



(See Descriptive Terminology sheet for explanation of abbreviations.)

Braun Project BL-09-00745C GEOTECHNICAL EVALUATION MCES Force main along West Lake Street West Lake Street St. Louis Park, Minnesota				BORING: MC-1 LOCATION: See attached sketch.				
DRILLER: M. Rowland			METHOD: 3 1/4" HSA, Autohammer		DATE: 6/18/12		SCALE: 1" = 4'	
Elev. feet 891.9	Depth feet 0.0	Symbol	Description of Materials (Soil-ASTM D2488 or D2487, Rock-USACE EM1110-1-2908)				BPF	WL
890.9	1.0	FILL	FILL: Sandy Lean Clay, dark brown, moist. (Topsoil Fill)		22			
		FILL	FILL: Poorly Graded Sand with Silt, fine- to coarse-grained, trace Gravel to with Gravel, gray, moist to waterbearing.		5*	▽	18	10
885.9	6.0	PT	PEAT, fiberous, black, wet. (Swamp Deposit)		29**			
					2*		314	
					3*		210	
877.9	14.0	OL	ORGANIC SILT, trace shells, black, wet. (Swamp Deposit)		3*		158	
					3*		161	OC=31%
872.9	19.0	OL	ORGANIC SILT, trace Gravel, dark brown to light brown, wet. (Swamp Deposit)		3*		70	
					8**			**No sample recovery.
865.9	26.0		Gravel at 25 feet.					
			END OF BORING.					
			Water observed at a depth of 4 feet with 5 feet of hollow-stem auger in the ground.					
			Water observed at a depth of 22 feet with 24 1/2 feet of hollow-stem auger in the ground.					
			Boring immediately backfilled with bentonite grout.					



SEH Inc.
3535 Vadnais Center Drive
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Telephone: 651-490-2070
Fax: 651-490-2150

BORING NUMBER GP-06

PAGE 1 OF 1

CLIENT City of Saint Louis Park

PROJECT NAME TH 7 and Louisiana Avenue Interchange

PROJECT NUMBER 106311

PROJECT LOCATION

DATE/TIME STARTED 8/8/11 1615

COMPLETED 8/8/11 1700

GROUND ELEVATION 891 ft

HOLE SIZE 2

DRILLING CONTRACTOR Thein Well- A. Wieber

GROUND WATER LEVELS:

DRILLING METHOD Geoprobe

SAMPLING METHOD Macro-Core

AT TIME OF DRILLING 8.0 ft / Elev 883.0 ft

LOGGED BY P. Eastling

CHECKED BY J. Kinny

AT END OF DRILLING ---

NOTES

AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	10.6 eV PID (ppm)
0						
1	46		OL	1.0	Loose, moist, brown, fine to medium grained SAND with silt (Topsoil)	890.0
2	31		SC	7.0	Loose, moist, black, clayey SAND with gravel (Fill) Strong naphthalene-like odor	6.6
3	25		PT	8.0	Loose, moist, dark brown, fibric PEAT (Swamp deposit)	58.9
4	75		SW	11.0	Loose, wet, black, well graded, fine to coarse grain SAND (Alluvium)	58.9
5			PT	12.0	Loose, moist, dark brown, fibric PEAT (Swamp deposit)	38.6
6	60		CL	14.0	Medium density, moist, dark gray, lean CLAY (Swamp deposit)	105
7			SW		Loose, wet , gray and black, well graded, fine to coarse grained SAND (Outwash) Strong naphthalene-like odor Potential NAPL, heavy sheen on soil and water	27.0
8						880.0
9						879.0
10						877.0
11						83.1
12						60.2
13						60.8
14						176
15						80.3
16						867.0
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Appendix B

Laboratory Reports (CD-ROM)

April 25, 2013

John Kinny
SEH
3535 Vadnais Center Drive
Saint Paul, MN 55110

RE: Project: MCES 123840
Pace Project No.: 10225292

Dear John Kinny:

Enclosed are the analytical results for sample(s) received by the laboratory on April 12, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Carol Davy

carol.davy@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..

Page 1 of 169

CERTIFICATIONS

Project: MCES 123840
Pace Project No.: 10225292

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace

Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: MCES 123840
Pace Project No.: 10225292

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10225292002	GP-1-5W	Water	04/10/13 09:40	04/12/13 15:40
10225292003	GP-1-16	Solid	04/10/13 10:15	04/12/13 15:40
10225292004	GP-2-8	Solid	04/10/13 11:15	04/12/13 15:40
10225292005	GP-3-8	Solid	04/10/13 11:30	04/12/13 15:40
10225292006	GP-3-4	Solid	04/10/13 12:00	04/12/13 15:40
10225292007	GP-3-9W	Water	04/10/13 12:15	04/12/13 15:40
10225292008	GP-4-2	Solid	04/10/13 13:25	04/12/13 15:40
10225292009	GP-4-18W	Water	04/10/13 13:35	04/12/13 15:40
10225292010	GP-5-2	Solid	04/10/13 14:30	04/12/13 15:40
10225292012	GP-5-14W	Water	04/10/13 14:50	04/12/13 15:40
10225292013	GP-6-4	Solid	04/10/13 15:50	04/12/13 15:40
10225292015	GP-7-3	Solid	04/10/13 16:25	04/12/13 15:40
10225292018	GP-8-3	Solid	04/11/13 10:00	04/12/13 15:40
10225292019	GP-9-5W	Water	04/11/13 10:40	04/12/13 15:40
10225292020	GP-9-2	Solid	04/11/13 10:45	04/12/13 15:40
10225292021	GP-10-7	Solid	04/11/13 11:45	04/12/13 15:40
10225292022	GP-11-2	Solid	04/11/13 12:35	04/12/13 15:40
10225292024	Trip Blank	Solid	04/10/13 00:00	04/12/13 15:40
10225292025	Trip Blank	Water	04/10/13 00:00	04/12/13 15:40

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SAMPLE ANALYTE COUNT

Project: MCES 123840
Pace Project No.: 10225292

Lab ID	Sample ID	Method	Analysts	Analytics Reported
10225292002	GP-1-5W	WI MOD DRO	MT	2
		WI MOD GRO	KT1	2
		EPA 6010	IP	7
		EPA 7470	TEM	1
		EPA 8270	JLR	70
		EPA 8260	DJT	70
10225292003	GP-1-16	WI MOD DRO	JRH	2
		WI MOD GRO	KT1	2
		EPA 6010	IP	7
		EPA 7471	TEM	1
		ASTM D2974	CMS2	1
		EPA 8270	JLR	72
10225292004	GP-2-8	EPA 8260	MJH	70
		WI MOD DRO	JRH	2
		WI MOD GRO	KT1	2
		EPA 6010	IP	7
		EPA 7471	TEM	1
		ASTM D2974	CMS2	1
10225292005	GP-3-8	EPA 8270	JLR	72
		EPA 8260	MJH	70
		WI MOD DRO	JRH	2
		WI MOD GRO	KT1	2
		EPA 6010	IP	7
		EPA 7471	TEM	1
10225292006	GP-3-4	ASTM D2974	CMS2	1
		EPA 8270	JLR	72
		EPA 8260	DJT, MJH	70
		EPA 8260	DJT	14
		WI MOD DRO	JRH	2
		WI MOD GRO	KT1	2
10225292007	GP-3-9W	EPA 6010	IP	7
		EPA 7471	TEM	1
		ASTM D2974	CMS2	1
		EPA 8270	JLR	72
		EPA 8260	DJT	70
		WI MOD DRO	JRH	2
		WI MOD GRO	KT1	2

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SAMPLE ANALYTE COUNT

Project: MCES 123840
Pace Project No.: 10225292

Lab ID	Sample ID	Method	Analysts	Analytics Reported
10225292008	GP-4-2	EPA 6010	IP	7
		EPA 7470	TEM	1
		EPA 8270	JLR	70
		EPA 8260	DJT, EB2	70
		WI MOD DRO	JRH	2
		WI MOD GRO	KT1	2
		EPA 6010	IP	7
		EPA 7471	TEM	1
		ASTM D2974	CMS2	1
		EPA 8270	JLR	72
10225292009	GP-4-18W	EPA 8260	MJH	70
		WI MOD DRO	MT	2
		WI MOD GRO	KT1	2
		EPA 6010	IP	7
		EPA 7470	TEM	1
		EPA 8270	JLR	70
		EPA 8260	DJT	70
10225292010	GP-5-2	WI MOD DRO	JRH	2
		WI MOD GRO	KT1	2
		EPA 6010	IP	7
		EPA 7471	TEM	1
		ASTM D2974	CMS2	1
		EPA 8270	JLR	72
		EPA 8260	DJT	70
10225292012	GP-5-14W	WI MOD DRO	MT	2
		WI MOD GRO	KT1	2
		EPA 6010	IP	7
		EPA 7470	TEM	1
		EPA 8270	JLR	70
		EPA 8260	DJT	70
		WI MOD DRO	JRH	2
10225292013	GP-6-4	WI MOD GRO	KT1	2
		EPA 6010	IP	7
		EPA 7471	TEM	1
		ASTM D2974	CMS2	1
		EPA 8270	JLR	72
		EPA 8260	DJT	70

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SAMPLE ANALYTE COUNT

Project: MCES 123840
Pace Project No.: 10225292

Lab ID	Sample ID	Method	Analysts	Analytics Reported
10225292015	GP-7-3	WI MOD DRO	JRH	2
		WI MOD GRO	KT1	2
		EPA 6010	IP	7
		EPA 7471	TEM	1
		ASTM D2974	CMS2	1
		EPA 8270	JLR	72
		EPA 8260	DJT	70
10225292018	GP-8-3	WI MOD DRO	JRH	2
		WI MOD GRO	KT1	2
		EPA 6010	IP	7
		EPA 7471	TEM	1
		ASTM D2974	CMS2	1
		EPA 8270	JLR	72
		EPA 8260	DJT	70
10225292019	GP-9-5W	WI MOD DRO	JRH	2
		WI MOD GRO	KT1	2
		EPA 6010	IP	7
		EPA 7470	TEM	1
		EPA 8270	JLR	70
		EPA 8260	DJT	70
		WI MOD DRO	JRH	2
10225292020	GP-9-2	WI MOD GRO	KT1	2
		EPA 6010	IP	7
		EPA 7471	TEM	1
		ASTM D2974	CMS2	1
		EPA 8270	JLR	72
		EPA 8260	DJT	70
		WI MOD DRO	JRH	2
10225292021	GP-10-7	WI MOD GRO	KT1	2
		EPA 6010	IP	7
		EPA 7471	TEM	1
		ASTM D2974	CMS2	1
		EPA 8270	JLR	72
		EPA 8260	DJT	70
		WI MOD DRO	JRH	2
10225292022	GP-11-2	WI MOD GRO	KT1	2
		EPA 6010	IP	7

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SAMPLE ANALYTE COUNT

Project: MCES 123840
Pace Project No.: 10225292

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10225292024	Trip Blank	EPA 7471	TEM	1
		ASTM D2974	CMS2	1
		EPA 8270	JLR	72
		EPA 8260	DJT	70
		WI MOD GRO	KT1	2
10225292025	Trip Blank	EPA 8260	DJT	70
		WI MOD GRO	KT1	2
		EPA 8260	DJT	70

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10225292

Method: WI MOD DRO
Description: WIDRO GCS
Client: SEH_MN
Date: April 25, 2013

General Information:

12 samples were analyzed for WI MOD DRO. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with WI MOD DRO with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/21389

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- GP-3-4 (Lab ID: 10225292006)
 - n-Triaccontane (S)
- GP-3-8 (Lab ID: 10225292005)
 - n-Triaccontane (S)

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/21389

T6: High boiling point hydrocarbons are present in the sample.

- GP-2-8 (Lab ID: 10225292004)
 - Diesel Range Organics
- GP-3-4 (Lab ID: 10225292006)
 - Diesel Range Organics

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10225292

Method: WI MOD DRO

Description: WIDRO GCS

Client: SEH_MN

Date: April 25, 2013

Analyte Comments:

QC Batch: OEXT/21389

T6: High boiling point hydrocarbons are present in the sample.

- GP-3-8 (Lab ID: 10225292005)
 - Diesel Range Organics

QC Batch: OEXT/21403

T6: High boiling point hydrocarbons are present in the sample.

- GP-11-2 (Lab ID: 10225292022)
 - Diesel Range Organics
- GP-4-2 (Lab ID: 10225292008)
 - Diesel Range Organics
- GP-5-2 (Lab ID: 10225292010)
 - Diesel Range Organics
- GP-6-4 (Lab ID: 10225292013)
 - Diesel Range Organics
- GP-7-3 (Lab ID: 10225292015)
 - Diesel Range Organics
- GP-8-3 (Lab ID: 10225292018)
 - Diesel Range Organics

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10225292

Method: WI MOD DRO

Description: WIDRO GCS

Client: SEH_MN

Date: April 25, 2013

General Information:

5 samples were analyzed for WI MOD DRO. All samples were received in acceptable condition with any exceptions noted below.

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

- GP-1-5W (Lab ID: 10225292002)
- GP-3-9W (Lab ID: 10225292007)
- GP-4-18W (Lab ID: 10225292009)
- GP-5-14W (Lab ID: 10225292012)

P4: Sample field preservation does not meet EPA or method recommendations for this analysis.

- GP-5-14W (Lab ID: 10225292012)

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with WI MOD DRO with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: OEXT/21401

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1410978)
- Diesel Range Organics

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10225292

Method: WI MOD DRO

Description: WIDRO GCS

Client: SEH_MN

Date: April 25, 2013

Analyte Comments:

QC Batch: OEXT/21401

C0: Result confirmed by second analysis.

- LCS (Lab ID: 1410978)
 - Diesel Range Organics

P2: Re-extraction or re-analysis could not be performed due to insufficient sample amount.

- GP-1-5W (Lab ID: 10225292002)
 - n-Triacontane (S)
- GP-3-9W (Lab ID: 10225292007)
 - n-Triacontane (S)
- GP-4-18W (Lab ID: 10225292009)
 - n-Triacontane (S)
- GP-5-14W (Lab ID: 10225292012)
 - n-Triacontane (S)

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10225292

Method: WI MOD GRO

Description: WIGRO GCV

Client: SEH_MN

Date: April 25, 2013

General Information:

13 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with TPH GRO/PVOC WI ext. with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCV/10597

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10225057005

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1410230)
- Gasoline Range Organics

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10225292

Method: WI MOD GRO
Description: WIGRO GCV
Client: SEH_MN
Date: April 25, 2013

Analyte Comments:

QC Batch: GCV/10597

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GP-3-8 (Lab ID: 10225292005)
- a,a,a-Trifluorotoluene (S)

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10225292

Method: WI MOD GRO
Description: WIGRO GCV
Client: SEH_MN
Date: April 25, 2013

General Information:

6 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: GCV/10614

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GP-3-9W (Lab ID: 10225292007)
- a,a,a-Trifluorotoluene (S)

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10225292

Method: **EPA 6010**
Description: 6010 MET ICP
Client: SEH_MN
Date: April 25, 2013

General Information:

17 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/38523

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10225292003,10225292022

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1409662)
- Lead

Additional Comments:

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10225292

Method: **EPA 7470**
Description: 7470 Mercury
Client: SEH_MN
Date: April 25, 2013

General Information:

5 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10225292

Method: EPA 7471
Description: 7471 Mercury
Client: SEH_MN
Date: April 25, 2013

General Information:

12 samples were analyzed for EPA 7471. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7471 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MERP/8261

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10225071001,10225292022

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1409665)
 - Mercury
- MSD (Lab ID: 1409666)
 - Mercury

Additional Comments:

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10225292

Method: **EPA 8270**
Description: 8270 MSSV
Client: SEH_MN
Date: April 25, 2013

General Information:

17 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

- GP-1-16 (Lab ID: 10225292003)
- GP-1-5W (Lab ID: 10225292002)
- GP-10-7 (Lab ID: 10225292021)
- GP-11-2 (Lab ID: 10225292022)
- GP-2-8 (Lab ID: 10225292004)
- GP-3-4 (Lab ID: 10225292006)
- GP-3-8 (Lab ID: 10225292005)
- GP-3-9W (Lab ID: 10225292007)
- GP-4-18W (Lab ID: 10225292009)
- GP-4-2 (Lab ID: 10225292008)
- GP-5-14W (Lab ID: 10225292012)
- GP-5-2 (Lab ID: 10225292010)
- GP-6-4 (Lab ID: 10225292013)
- GP-7-3 (Lab ID: 10225292015)
- GP-8-3 (Lab ID: 10225292018)
- GP-9-2 (Lab ID: 10225292020)

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

QC Batch: OEXT/21394

P3: Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.

- GP-3-4 (Lab ID: 10225292006)
- GP-3-8 (Lab ID: 10225292005)
- GP-7-3 (Lab ID: 10225292015)

The samples were prepared in accordance with EPA 3520 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

QC Batch: OEXT/21394

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- BLANK (Lab ID: 1410703)
 - Benzidine
- GP-1-16 (Lab ID: 10225292003)
 - Benzidine
- GP-10-7 (Lab ID: 10225292021)
 - Benzidine

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10225292

Method: EPA 8270
Description: 8270 MSSV
Client: SEH_MN
Date: April 25, 2013

QC Batch: OEXT/21394

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- GP-11-2 (Lab ID: 10225292022)
 - Benzidine
- GP-2-8 (Lab ID: 10225292004)
 - Benzidine
- GP-3-4 (Lab ID: 10225292006)
 - Benzidine
- GP-3-8 (Lab ID: 10225292005)
 - Benzidine
- GP-4-2 (Lab ID: 10225292008)
 - Benzidine
- GP-5-2 (Lab ID: 10225292010)
 - Benzidine
- GP-6-4 (Lab ID: 10225292013)
 - Benzidine
- GP-7-3 (Lab ID: 10225292015)
 - Benzidine
- GP-8-3 (Lab ID: 10225292018)
 - Benzidine
- GP-9-2 (Lab ID: 10225292020)
 - Benzidine
- LCS (Lab ID: 1410704)
 - Benzidine
- MS (Lab ID: 1410705)
 - Benzidine
- MSD (Lab ID: 1410706)
 - Benzidine

QC Batch: OEXT/21400

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- BLANK (Lab ID: 1410946)
 - 4-Chloroaniline
- GP-1-5W (Lab ID: 10225292002)
 - 4-Chloroaniline
- GP-3-9W (Lab ID: 10225292007)
 - 4-Chloroaniline
- GP-4-18W (Lab ID: 10225292009)
 - 4-Chloroaniline
- GP-5-14W (Lab ID: 10225292012)
 - 4-Chloroaniline
- LCS (Lab ID: 1410947)
 - 4-Chloroaniline
- LCSD (Lab ID: 1410948)
 - 4-Chloroaniline

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PROJECT NARRATIVE

Project: MCES 123840

Pace Project No.: 10225292

Method: **EPA 8270**

Description: 8270 MSSV

Client: SEH_MN

Date: April 25, 2013

QC Batch: OEXT/21419

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- BLANK (Lab ID: 1412090)
- 4-Chloroaniline
- GP-9-5W (Lab ID: 10225292019)
- 4-Chloroaniline
- LCS (Lab ID: 1412091)
- 4-Chloroaniline
- LCSD (Lab ID: 1412092)
- 4-Chloroaniline

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: OEXT/21394

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 1410704)
 - 2,4-Dinitrophenol
 - 4-Nitrophenol
 - Hexachlorocyclopentadiene
- MS (Lab ID: 1410705)
 - 2,4-Dinitrophenol
 - 4-Nitrophenol
 - Hexachlorocyclopentadiene
- MSD (Lab ID: 1410706)
 - 2,4-Dinitrophenol
 - 4-Nitrophenol
 - Hexachlorocyclopentadiene

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- BLANK (Lab ID: 1410703)
 - 4-Chloroaniline
 - Benzidine
- GP-1-16 (Lab ID: 10225292003)
 - 4-Chloroaniline
 - Benzidine
- GP-10-7 (Lab ID: 10225292021)
 - 4-Chloroaniline
- GP-11-2 (Lab ID: 10225292022)
 - 4-Chloroaniline
- GP-2-8 (Lab ID: 10225292004)
 - 4-Chloroaniline
 - Benzidine
- GP-3-4 (Lab ID: 10225292006)
 - 4-Chloroaniline
- GP-3-8 (Lab ID: 10225292005)

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10225292

Method: **EPA 8270**
Description: 8270 MSSV
Client: SEH_MN
Date: April 25, 2013

QC Batch: OEXT/21394

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- 4-Chloroaniline
- GP-4-2 (Lab ID: 10225292008)
- 4-Chloroaniline
- GP-5-2 (Lab ID: 10225292010)
- 4-Chloroaniline
- Benzidine
- GP-6-4 (Lab ID: 10225292013)
- 4-Chloroaniline
- GP-7-3 (Lab ID: 10225292015)
- 4-Chloroaniline
- GP-8-3 (Lab ID: 10225292018)
- 4-Chloroaniline
- GP-9-2 (Lab ID: 10225292020)
- 4-Chloroaniline
- LCS (Lab ID: 1410704)
- 4-Chloroaniline
- Benzidine
- MS (Lab ID: 1410705)
- 4-Chloroaniline
- Benzidine
- MSD (Lab ID: 1410706)
- 4-Chloroaniline
- Benzidine

QC Batch: OEXT/21400

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- BLANK (Lab ID: 1410946)
 - 4-Chloroaniline
 - Benzoic acid
- GP-1-5W (Lab ID: 10225292002)
 - 4-Chloroaniline
 - Benzoic acid
- GP-3-9W (Lab ID: 10225292007)
 - 4-Chloroaniline
 - Benzoic acid
- GP-4-18W (Lab ID: 10225292009)
 - 4-Chloroaniline
 - Benzoic acid
- GP-5-14W (Lab ID: 10225292012)
 - 4-Chloroaniline
 - Benzoic acid
- LCS (Lab ID: 1410947)
 - 4-Chloroaniline
 - Benzoic acid

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10225292

Method: EPA 8270
Description: 8270 MSSV
Client: SEH_MN
Date: April 25, 2013

QC Batch: OEXT/21400

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- LCSD (Lab ID: 1410948)
 - 4-Chloroaniline
 - Benzoic acid

QC Batch: OEXT/21419

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- BLANK (Lab ID: 1412090)
 - Benzoic acid
- GP-9-5W (Lab ID: 10225292019)
 - Benzoic acid
- LCS (Lab ID: 1412091)
 - Benzoic acid
- LCSD (Lab ID: 1412092)
 - Benzoic acid

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/21394

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- GP-3-8 (Lab ID: 10225292005)
 - 2,4,6-Tribromophenol (S)
 - 2-Fluorobiphenyl (S)
 - 2-Fluorophenol (S)
 - Nitrobenzene-d5 (S)
 - Phenol-d6 (S)
 - Terphenyl-d14 (S)

QC Batch: OEXT/21400

S1: Surrogate recovery outside laboratory control limits (confirmed by re-analysis).

- GP-4-18W (Lab ID: 10225292009)
 - 2,4,6-Tribromophenol (S)
 - 2-Fluorophenol (S)
 - Phenol-d6 (S)

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10225292

Method: EPA 8270
Description: 8270 MSSV
Client: SEH_MN
Date: April 25, 2013

QC Batch: OEXT/21394

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1410704)
- Benzidine

QC Batch: OEXT/21400

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1410947)
- 3,3'-Dichlorobenzidine
- 3-Nitroaniline
- 4-Chloroaniline

R1: RPD value was outside control limits.

- LCSD (Lab ID: 1410948)
- 3-Nitroaniline
- 4-Nitroaniline

QC Batch: OEXT/21419

R1: RPD value was outside control limits.

- LCSD (Lab ID: 1412092)
- 4-Chloroaniline

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSSV/9182

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: OEXT/21394

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10225057001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1410705)
- Benzidine
- MSD (Lab ID: 1410706)
- Benzidine

QC Batch: MSSV/9187

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/21394

2M: RF failed in the external check for the 8270D method.

- BLANK (Lab ID: 1410703)
- bis(2-Chloroethoxy)methane

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10225292

Method: **EPA 8270**
Description: 8270 MSSV
Client: SEH_MN
Date: April 25, 2013

Analyte Comments:

QC Batch: OEXT/21394

2M: RF failed in the external check for the 8270D method.

- GP-1-16 (Lab ID: 10225292003)
 - bis(2-Chloroethoxy)methane
- GP-10-7 (Lab ID: 10225292021)
 - bis(2-Chloroethoxy)methane
- GP-11-2 (Lab ID: 10225292022)
 - bis(2-Chloroethoxy)methane
- GP-2-8 (Lab ID: 10225292004)
 - bis(2-Chloroethoxy)methane
- GP-3-4 (Lab ID: 10225292006)
 - bis(2-Chloroethoxy)methane
- GP-3-8 (Lab ID: 10225292005)
 - bis(2-Chloroethoxy)methane
- GP-4-2 (Lab ID: 10225292008)
 - bis(2-Chloroethoxy)methane
- GP-5-2 (Lab ID: 10225292010)
 - bis(2-Chloroethoxy)methane
- GP-6-4 (Lab ID: 10225292013)
 - bis(2-Chloroethoxy)methane
- GP-7-3 (Lab ID: 10225292015)
 - bis(2-Chloroethoxy)methane
- GP-8-3 (Lab ID: 10225292018)
 - bis(2-Chloroethoxy)methane
- GP-9-2 (Lab ID: 10225292020)
 - bis(2-Chloroethoxy)methane
- LCS (Lab ID: 1410704)
 - bis(2-Chloroethoxy)methane
- MS (Lab ID: 1410705)
 - bis(2-Chloroethoxy)methane
- MSD (Lab ID: 1410706)
 - bis(2-Chloroethoxy)methane

D4: Sample was diluted due to the presence of high levels of target analytes.

- GP-3-4 (Lab ID: 10225292006)
 - Nitrobenzene-d5 (S)
- GP-3-8 (Lab ID: 10225292005)
 - Nitrobenzene-d5 (S)
- GP-4-2 (Lab ID: 10225292008)
 - Nitrobenzene-d5 (S)

QC Batch: OEXT/21400

P2: Re-extraction or re-analysis could not be performed due to insufficient sample amount.

- GP-4-18W (Lab ID: 10225292009)
 - Nitrobenzene-d5 (S)

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PROJECT NARRATIVE

Project: MCES 123840

Pace Project No.: 10225292

Method: **EPA 8260**

Description: 8260 MSV 5030 Med Level

Client: SEH_MN

Date: April 25, 2013

General Information:

13 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10225292

Method: **EPA 8260**
Description: 8260 MSV TCLP
Client: SEH_MN
Date: April 25, 2013

General Information:

1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/23424

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10225752001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1412973)
 - Trichloroethene
- MSD (Lab ID: 1412974)
 - Trichloroethene

Additional Comments:

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10225292

Method: **EPA 8260**
Description: 8260 VOC
Client: SEH_MN
Date: April 25, 2013

General Information:

6 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

QC Batch: MSV/23434

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- LCS (Lab ID: 1413645)
 - Bromomethane
- MS (Lab ID: 1413646)
 - Bromomethane
- MSD (Lab ID: 1413647)
 - Bromomethane

QC Batch: MSV/23440

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- LCS (Lab ID: 1413966)
 - Bromomethane
- MS (Lab ID: 1413967)
 - Bromomethane

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: MSV/23434

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 1413645)
 - Bromomethane
- MS (Lab ID: 1413646)
 - Bromomethane
- MSD (Lab ID: 1413647)
 - Bromomethane

QC Batch: MSV/23440

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 1413966)
 - Bromomethane
- MS (Lab ID: 1413967)
 - Bromomethane

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10225292

Method: **EPA 8260**
Description: 8260 VOC
Client: SEH_MN
Date: April 25, 2013

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/23434

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1413645)
 - Allyl chloride
 - Bromomethane
 - Carbon tetrachloride

QC Batch: MSV/23440

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1413966)
 - Bromomethane

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/23405

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10225221001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1412172)
 - Bromomethane

QC Batch: MSV/23434

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10225422029

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1413646)
 - Bromomethane
- MSD (Lab ID: 1413647)
 - Allyl chloride
 - Bromomethane
 - Carbon tetrachloride

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 1413647)
 - 1,1,2-Trichlorotrifluoroethane

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10225292

Method: **EPA 8260**
Description: 8260 VOC
Client: SEH_MN
Date: April 25, 2013

QC Batch: MSV/23434

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10225422029

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
• Trichloroethene

QC Batch: MSV/23440

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10225857001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
• MS (Lab ID: 1413967)
• Bromomethane

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MSV/23405

1M: Post-analysis pH measurement indicates insufficient VOA sample preservation. Therefore, analysis was conducted outside the recognized method holding time.
• GP-5-14W (Lab ID: 10225292012)
• 1,2-Dichloroethane-d4 (S)

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: MCES 123840
Pace Project No.: 10225292

Sample: GP-1-5W	Lab ID: 10225292002	Collected: 04/10/13 09:40	Received: 04/12/13 15:40	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	273	ug/L	105	12.6	1	04/17/13 07:30	04/19/13 07:58		L2
Surrogates									
n-Triacontane (S)	77	%	50-150		1	04/17/13 07:30	04/19/13 07:58		P2
WIGRO GCV	Analytical Method: WI MOD GRO								
Gasoline Range Organics	ND	ug/L	100		1		04/19/13 02:53		
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-125		1		04/19/13 02:53	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	99.9	ug/L	20.0	5.5	1	04/20/13 07:52	04/24/13 11:12	7440-38-2	
Barium	2770	ug/L	10.0	0.13	1	04/20/13 07:52	04/24/13 11:12	7440-39-3	
Cadmium	ND	ug/L	3.0	0.29	1	04/20/13 07:52	04/24/13 11:12	7440-43-9	
Chromium	ND	ug/L	10.0	0.72	1	04/20/13 07:52	04/24/13 11:12	7440-47-3	
Lead	ND	ug/L	10.0	1.2	1	04/20/13 07:52	04/24/13 11:12	7439-92-1	
Selenium	ND	ug/L	20.0	6.1	1	04/20/13 07:52	04/24/13 11:12	7782-49-2	
Silver	ND	ug/L	10.0	0.96	1	04/20/13 07:52	04/24/13 11:12	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.030	1	04/19/13 09:56	04/22/13 13:22	7439-97-6	
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3520								
Phenol	ND	ug/L	10.3	1.1	1	04/16/13 21:55	04/19/13 11:17	108-95-2	
bis(2-Chloroethyl) ether	ND	ug/L	10.3	1.1	1	04/16/13 21:55	04/19/13 11:17	111-44-4	
2-Chlorophenol	ND	ug/L	10.3	1.2	1	04/16/13 21:55	04/19/13 11:17	95-57-8	
1,3-Dichlorobenzene	ND	ug/L	10.3	1.3	1	04/16/13 21:55	04/19/13 11:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.3	1.1	1	04/16/13 21:55	04/19/13 11:17	106-46-7	
Benzyl alcohol	ND	ug/L	10.3	1.2	1	04/16/13 21:55	04/19/13 11:17	100-51-6	
1,2-Dichlorobenzene	ND	ug/L	10.3	1.2	1	04/16/13 21:55	04/19/13 11:17	95-50-1	
2-Methylphenol(o-Cresol)	ND	ug/L	10.3	1.0	1	04/16/13 21:55	04/19/13 11:17	95-48-7	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.3	1.2	1	04/16/13 21:55	04/19/13 11:17	108-60-1	
3&4-Methylphenol	ND	ug/L	20.6	1.0	1	04/16/13 21:55	04/19/13 11:17		
N-Nitroso-di-n-propylamine	ND	ug/L	10.3	1.1	1	04/16/13 21:55	04/19/13 11:17	621-64-7	
Hexachloroethane	ND	ug/L	10.3	1.4	1	04/16/13 21:55	04/19/13 11:17	67-72-1	
Nitrobenzene	ND	ug/L	10.3	1.1	1	04/16/13 21:55	04/19/13 11:17	98-95-3	
Isophorone	ND	ug/L	10.3	0.87	1	04/16/13 21:55	04/19/13 11:17	78-59-1	
2-Nitrophenol	ND	ug/L	10.3	0.98	1	04/16/13 21:55	04/19/13 11:17	88-75-5	
2,4-Dimethylphenol	ND	ug/L	10.3	3.4	1	04/16/13 21:55	04/19/13 11:17	105-67-9	
Benzoic acid	ND	ug/L	51.5	25.8	1	04/16/13 21:55	04/19/13 11:17	65-85-0	CL
bis(2-Chloroethoxy)methane	ND	ug/L	10.3	0.93	1	04/16/13 21:55	04/19/13 11:17	111-91-1	
2,4-Dichlorophenol	ND	ug/L	10.3	0.89	1	04/16/13 21:55	04/19/13 11:17	120-83-2	
1,2,4-Trichlorobenzene	ND	ug/L	10.3	1.1	1	04/16/13 21:55	04/19/13 11:17	120-82-1	
Naphthalene	ND	ug/L	10.3	1.1	1	04/16/13 21:55	04/19/13 11:17	91-20-3	
4-Chloroaniline	ND	ug/L	10.3	1.6	1	04/16/13 21:55	04/19/13 11:17	106-47-8	CL,L2,SS
Hexachloro-1,3-butadiene	ND	ug/L	10.3	1.3	1	04/16/13 21:55	04/19/13 11:17	87-68-3	

Date: 04/25/2013 04:09 PM

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ANALYTICAL RESULTS

Project: MCES 123840
Pace Project No.: 10225292

Sample: GP-1-5W	Lab ID: 10225292002	Collected: 04/10/13 09:40	Received: 04/12/13 15:40	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3520								
4-Chloro-3-methylphenol	ND ug/L		10.3	0.82	1	04/16/13 21:55	04/19/13 11:17	59-50-7	
2-Methylnaphthalene	ND ug/L		10.3	0.91	1	04/16/13 21:55	04/19/13 11:17	91-57-6	
2,4,6-Trichlorophenol	ND ug/L		10.3	0.88	1	04/16/13 21:55	04/19/13 11:17	88-06-2	
2,4,5-Trichlorophenol	ND ug/L		10.3	0.82	1	04/16/13 21:55	04/19/13 11:17	95-95-4	
2-Chloronaphthalene	ND ug/L		10.3	0.80	1	04/16/13 21:55	04/19/13 11:17	91-58-7	
2-Nitroaniline	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	88-74-4	
Dimethylphthalate	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	131-11-3	
Acenaphthylene	ND ug/L		10.3	0.82	1	04/16/13 21:55	04/19/13 11:17	208-96-8	
2,6-Dinitrotoluene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	606-20-2	
3-Nitroaniline	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	99-09-2	L2
Acenaphthene	ND ug/L		10.3	0.87	1	04/16/13 21:55	04/19/13 11:17	83-32-9	
2,4-Dinitrophenol	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	51-28-5	
4-Nitrophenol	ND ug/L		10.3	2.1	1	04/16/13 21:55	04/19/13 11:17	100-02-7	
Dibenzofuran	ND ug/L		10.3	0.59	1	04/16/13 21:55	04/19/13 11:17	132-64-9	
2,4-Dinitrotoluene	ND ug/L		10.3	0.82	1	04/16/13 21:55	04/19/13 11:17	121-14-2	
Diethylphthalate	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	84-66-2	
4-Chlorophenylphenyl ether	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	7005-72-3	
Fluorene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	86-73-7	
4-Nitroaniline	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	100-01-6	
4,6-Dinitro-2-methylphenol	ND ug/L		10.3	4.2	1	04/16/13 21:55	04/19/13 11:17	534-52-1	
N-Nitrosodiphenylamine	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	86-30-6	
4-Bromophenylphenyl ether	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	101-55-3	
Hexachlorobenzene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	118-74-1	
Pentachlorophenol	ND ug/L		20.6	10.3	1	04/16/13 21:55	04/19/13 11:17	87-86-5	
Phenanthrene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	85-01-8	
Anthracene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	120-12-7	
Di-n-butylphthalate	ND ug/L		10.3	1.2	1	04/16/13 21:55	04/19/13 11:17	84-74-2	
Fluoranthene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	206-44-0	
Pyrene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	129-00-0	
Butylbenzylphthalate	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	85-68-7	
3,3'-Dichlorobenzidine	ND ug/L		10.3	1.2	1	04/16/13 21:55	04/19/13 11:17	91-94-1	L2
Benzo(a)anthracene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	56-55-3	
Chrysene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	218-01-9	
bis(2-Ethylhexyl)phthalate	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	117-81-7	
Di-n-octylphthalate	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	117-84-0	
Benzo(b)fluoranthene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	205-99-2	
Benzo(k)fluoranthene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	207-08-9	
Benzo(a)pyrene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	50-32-8	
Indeno(1,2,3-cd)pyrene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	193-39-5	
Dibenz(a,h)anthracene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	53-70-3	
Benzo(g,h,i)perylene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 11:17	191-24-2	
Surrogates									
Nitrobenzene-d5 (S)	66 %		60-125		1	04/16/13 21:55	04/19/13 11:17	4165-60-0	
2-Fluorobiphenyl (S)	70 %		60-125		1	04/16/13 21:55	04/19/13 11:17	321-60-8	
Terphenyl-d14 (S)	74 %		56-125		1	04/16/13 21:55	04/19/13 11:17	1718-51-0	
Phenol-d6 (S)	68 %		56-125		1	04/16/13 21:55	04/19/13 11:17	13127-88-3	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-1-5W	Lab ID: 10225292002	Collected: 04/10/13 09:40	Received: 04/12/13 15:40	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3520							
Surrogates									
2-Fluorophenol (S)	64 %		53-125		1	04/16/13 21:55	04/19/13 11:17	367-12-4	
2,4,6-Tribromophenol (S)	78 %		55-125		1	04/16/13 21:55	04/19/13 11:17	118-79-6	
8260 VOC		Analytical Method: EPA 8260							
Acetone	ND ug/L		20.0	10.0	1		04/22/13 17:36	67-64-1	
Allyl chloride	ND ug/L		4.0	1.8	1		04/22/13 17:36	107-05-1	L3
Benzene	ND ug/L		1.0	0.062	1		04/22/13 17:36	71-43-2	
Bromobenzene	ND ug/L		1.0	0.086	1		04/22/13 17:36	108-86-1	
Bromochloromethane	ND ug/L		1.0	0.32	1		04/22/13 17:36	74-97-5	
Bromodichloromethane	ND ug/L		1.0	0.11	1		04/22/13 17:36	75-27-4	
Bromoform	ND ug/L		4.0	0.068	1		04/22/13 17:36	75-25-2	
Bromomethane	ND ug/L		4.0	0.36	1		04/22/13 17:36	74-83-9	L3
2-Butanone (MEK)	ND ug/L		5.0	2.5	1		04/22/13 17:36	78-93-3	
n-Butylbenzene	ND ug/L		1.0	0.15	1		04/22/13 17:36	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	0.10	1		04/22/13 17:36	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	0.10	1		04/22/13 17:36	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	0.16	1		04/22/13 17:36	56-23-5	L3
Chlorobenzene	ND ug/L		1.0	0.10	1		04/22/13 17:36	108-90-7	
Chloroethane	ND ug/L		1.0	0.22	1		04/22/13 17:36	75-00-3	
Chloroform	ND ug/L		1.0	0.14	1		04/22/13 17:36	67-66-3	
Chloromethane	ND ug/L		4.0	0.41	1		04/22/13 17:36	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.50	1		04/22/13 17:36	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.068	1		04/22/13 17:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	0.62	1		04/22/13 17:36	96-12-8	
Dibromochloromethane	ND ug/L		1.0	0.10	1		04/22/13 17:36	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	0.091	1		04/22/13 17:36	106-93-4	
Dibromomethane	ND ug/L		4.0	0.21	1		04/22/13 17:36	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.36	1		04/22/13 17:36	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.11	1		04/22/13 17:36	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.064	1		04/22/13 17:36	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.20	1		04/22/13 17:36	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.11	1		04/22/13 17:36	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.37	1		04/22/13 17:36	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.19	1		04/22/13 17:36	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.085	1		04/22/13 17:36	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.15	1		04/22/13 17:36	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	0.11	1		04/22/13 17:36	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	0.27	1		04/22/13 17:36	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.081	1		04/22/13 17:36	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	0.15	1		04/22/13 17:36	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.35	1		04/22/13 17:36	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	0.090	1		04/22/13 17:36	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	0.37	1		04/22/13 17:36	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	2.0	1		04/22/13 17:36	60-29-7	
Ethylbenzene	ND ug/L		1.0	0.081	1		04/22/13 17:36	100-41-4	

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ANALYTICAL RESULTS

Project: MCES 123840
Pace Project No.: 10225292

Sample: GP-1-5W	Lab ID: 10225292002	Collected: 04/10/13 09:40	Received: 04/12/13 15:40	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
Hexachloro-1,3-butadiene	ND ug/L		5.0	0.19	1		04/22/13 17:36	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	0.076	1		04/22/13 17:36	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	0.086	1		04/22/13 17:36	99-87-6	
Methylene Chloride	ND ug/L		4.0	2.0	1		04/22/13 17:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	2.5	1		04/22/13 17:36	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	0.088	1		04/22/13 17:36	1634-04-4	
Naphthalene	ND ug/L		4.0	0.068	1		04/22/13 17:36	91-20-3	
n-Propylbenzene	ND ug/L		1.0	0.078	1		04/22/13 17:36	103-65-1	
Styrene	ND ug/L		1.0	0.060	1		04/22/13 17:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	0.36	1		04/22/13 17:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.097	1		04/22/13 17:36	79-34-5	
Tetrachloroethene	ND ug/L		1.0	0.13	1		04/22/13 17:36	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	0.97	1		04/22/13 17:36	109-99-9	
Toluene	ND ug/L		1.0	0.077	1		04/22/13 17:36	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.13	1		04/22/13 17:36	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.25	1		04/22/13 17:36	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	0.19	1		04/22/13 17:36	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.15	1		04/22/13 17:36	79-00-5	
Trichloroethene	ND ug/L		1.0	0.083	1		04/22/13 17:36	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.13	1		04/22/13 17:36	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	0.33	1		04/22/13 17:36	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	0.18	1		04/22/13 17:36	76-13-1	
1,2,4-Trimethylbenzene	2.3 ug/L		1.0	0.071	1		04/22/13 17:36	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	0.087	1		04/22/13 17:36	108-67-8	
Vinyl chloride	ND ug/L		0.40	0.16	1		04/22/13 17:36	75-01-4	
Xylene (Total)	ND ug/L		3.0	0.22	1		04/22/13 17:36	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	100 %		75-125		1		04/22/13 17:36	17060-07-0	
Toluene-d8 (S)	100 %		75-125		1		04/22/13 17:36	2037-26-5	
4-Bromofluorobenzene (S)	98 %		75-125		1		04/22/13 17:36	460-00-4	

ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-1-16 Lab ID: 10225292003 Collected: 04/10/13 10:15 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	ND mg/kg		10	1.1	1	04/16/13 09:16	04/19/13 14:23		
Surrogates									
n-Triacontane (S)	79 %		50-150		1	04/16/13 09:16	04/19/13 14:23		
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Gasoline Range Organics	ND mg/kg		6.3		1	04/15/13 17:39	04/16/13 19:46		
Surrogates									
a,a,a-Trifluorotoluene (S)	98 %		80-125		1	04/15/13 17:39	04/16/13 19:46	98-08-8	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	5.8 mg/kg		1.0	0.17	1	04/19/13 07:37	04/23/13 11:26	7440-38-2	
Barium	42.4 mg/kg		0.51	0.029	1	04/19/13 07:37	04/23/13 11:26	7440-39-3	
Cadmium	ND mg/kg		0.15	0.076	1	04/19/13 07:37	04/23/13 11:26	7440-43-9	
Chromium	8.4 mg/kg		0.51	0.077	1	04/19/13 07:37	04/23/13 11:26	7440-47-3	
Lead	4.4 mg/kg		1.0	0.073	1	04/19/13 07:37	04/23/13 11:26	7439-92-1	
Selenium	1.2 mg/kg		0.76	0.25	1	04/19/13 07:37	04/23/13 11:26	7782-49-2	
Silver	ND mg/kg		0.51	0.034	1	04/19/13 07:37	04/24/13 09:22	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.028 mg/kg		0.025	0.0075	1	04/19/13 07:56	04/22/13 12:53	7439-97-6	
Dry Weight Analytical Method: ASTM D2974									
Percent Moisture	22.2 %		0.10	0.10	1		04/15/13 00:00		
8270 MSSV Analytical Method: EPA 8270 Preparation Method: EPA 3550									
Acenaphthene	ND mg/kg		0.42	0.050	1	04/16/13 14:01	04/19/13 16:20	83-32-9	
Acenaphthylene	ND mg/kg		0.42	0.049	1	04/16/13 14:01	04/19/13 16:20	208-96-8	
Anthracene	ND mg/kg		0.42	0.054	1	04/16/13 14:01	04/19/13 16:20	120-12-7	
Benzidine	ND mg/kg		2.1	1.0	1	04/16/13 14:01	04/19/13 16:20	92-87-5	
Benzo(a)anthracene	ND mg/kg		0.42	0.060	1	04/16/13 14:01	04/19/13 16:20	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.42	0.061	1	04/16/13 14:01	04/19/13 16:20	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.42	0.061	1	04/16/13 14:01	04/19/13 16:20	205-99-2	
Benzo(g,h,i)perylene	ND mg/kg		0.42	0.065	1	04/16/13 14:01	04/19/13 16:20	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.42	0.059	1	04/16/13 14:01	04/19/13 16:20	207-08-9	
Benzoic acid	ND mg/kg		2.2	0.59	1	04/16/13 14:01	04/19/13 16:20	65-85-0	
Benzyl alcohol	ND mg/kg		0.42	0.063	1	04/16/13 14:01	04/19/13 16:20	100-51-6	
4-Bromophenylphenyl ether	ND mg/kg		0.42	0.065	1	04/16/13 14:01	04/19/13 16:20	101-55-3	
Butylbenzylphthalate	ND mg/kg		0.42	0.058	1	04/16/13 14:01	04/19/13 16:20	85-68-7	
4-Chloro-3-methylphenol	ND mg/kg		0.42	0.050	1	04/16/13 14:01	04/19/13 16:20	59-50-7	
4-Chloroaniline	ND mg/kg		0.42	0.091	1	04/16/13 14:01	04/19/13 16:20	106-47-8	CL
bis(2-Chloroethoxy)methane	ND mg/kg		0.42	0.072	1	04/16/13 14:01	04/19/13 16:20	111-91-1	2M
bis(2-Chloroethyl) ether	ND mg/kg		0.42	0.087	1	04/16/13 14:01	04/19/13 16:20	111-44-4	
bis(2-Chloroisopropyl) ether	ND mg/kg		0.42	0.10	1	04/16/13 14:01	04/19/13 16:20	108-60-1	
2-Chloronaphthalene	ND mg/kg		0.42	0.051	1	04/16/13 14:01	04/19/13 16:20	91-58-7	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-1-16 Lab ID: 10225292003 Collected: 04/10/13 10:15 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3550							
2-Chlorophenol	ND mg/kg	0.42	0.093	1	04/16/13 14:01	04/19/13 16:20	95-57-8		
4-Chlorophenylphenyl ether	ND mg/kg	0.42	0.057	1	04/16/13 14:01	04/19/13 16:20	7005-72-3		
Chrysene	ND mg/kg	0.42	0.061	1	04/16/13 14:01	04/19/13 16:20	218-01-9		
Dibenz(a,h)anthracene	ND mg/kg	0.42	0.066	1	04/16/13 14:01	04/19/13 16:20	53-70-3		
Dibenzofuran	ND mg/kg	0.42	0.052	1	04/16/13 14:01	04/19/13 16:20	132-64-9		
1,2-Dichlorobenzene	ND mg/kg	0.42	0.091	1	04/16/13 14:01	04/19/13 16:20	95-50-1		
1,3-Dichlorobenzene	ND mg/kg	0.42	0.097	1	04/16/13 14:01	04/19/13 16:20	541-73-1		
1,4-Dichlorobenzene	ND mg/kg	0.42	0.090	1	04/16/13 14:01	04/19/13 16:20	106-46-7		
3,3'-Dichlorobenzidine	ND mg/kg	0.42	0.21	1	04/16/13 14:01	04/19/13 16:20	91-94-1		
2,4-Dichlorophenol	ND mg/kg	0.42	0.063	1	04/16/13 14:01	04/19/13 16:20	120-83-2		
Diethylphthalate	ND mg/kg	0.42	0.056	1	04/16/13 14:01	04/19/13 16:20	84-66-2		
2,4-Dimethylphenol	ND mg/kg	0.42	0.070	1	04/16/13 14:01	04/19/13 16:20	105-67-9		
Dimethylphthalate	ND mg/kg	0.42	0.059	1	04/16/13 14:01	04/19/13 16:20	131-11-3		
Di-n-butylphthalate	ND mg/kg	0.42	0.044	1	04/16/13 14:01	04/19/13 16:20	84-74-2		
4,6-Dinitro-2-methylphenol	ND mg/kg	2.2	0.36	1	04/16/13 14:01	04/19/13 16:20	534-52-1		
2,4-Dinitrophenol	ND mg/kg	0.42	0.061	1	04/16/13 14:01	04/19/13 16:20	51-28-5		
2,4-Dinitrotoluene	ND mg/kg	0.42	0.070	1	04/16/13 14:01	04/19/13 16:20	121-14-2		
2,6-Dinitrotoluene	ND mg/kg	0.42	0.059	1	04/16/13 14:01	04/19/13 16:20	606-20-2		
Di-n-octylphthalate	ND mg/kg	0.42	0.062	1	04/16/13 14:01	04/19/13 16:20	117-84-0		
bis(2-Ethylhexyl)phthalate	ND mg/kg	0.42	0.099	1	04/16/13 14:01	04/19/13 16:20	117-81-7		
Fluoranthene	ND mg/kg	0.42	0.052	1	04/16/13 14:01	04/19/13 16:20	206-44-0		
Fluorene	ND mg/kg	0.42	0.054	1	04/16/13 14:01	04/19/13 16:20	86-73-7		
Hexachloro-1,3-butadiene	ND mg/kg	0.42	0.11	1	04/16/13 14:01	04/19/13 16:20	87-68-3		
Hexachlorobenzene	ND mg/kg	0.42	0.060	1	04/16/13 14:01	04/19/13 16:20	118-74-1		
Hexachlorocyclopentadiene	ND mg/kg	0.42	0.21	1	04/16/13 14:01	04/19/13 16:20	77-47-4		
Hexachloroethane	ND mg/kg	0.42	0.10	1	04/16/13 14:01	04/19/13 16:20	67-72-1		
Indeno(1,2,3-cd)pyrene	ND mg/kg	0.42	0.062	1	04/16/13 14:01	04/19/13 16:20	193-39-5		
Isophorone	ND mg/kg	0.42	0.051	1	04/16/13 14:01	04/19/13 16:20	78-59-1		
2-Methylnaphthalene	ND mg/kg	0.42	0.063	1	04/16/13 14:01	04/19/13 16:20	91-57-6		
2-Methylphenol(o-Cresol)	ND mg/kg	0.42	0.065	1	04/16/13 14:01	04/19/13 16:20	95-48-7		
3&4-Methylphenol	ND mg/kg	0.85	0.057	1	04/16/13 14:01	04/19/13 16:20			
Naphthalene	ND mg/kg	0.42	0.083	1	04/16/13 14:01	04/19/13 16:20	91-20-3		
2-Nitroaniline	ND mg/kg	0.42	0.059	1	04/16/13 14:01	04/19/13 16:20	88-74-4		
3-Nitroaniline	ND mg/kg	0.42	0.083	1	04/16/13 14:01	04/19/13 16:20	99-09-2		
4-Nitroaniline	ND mg/kg	0.42	0.062	1	04/16/13 14:01	04/19/13 16:20	100-01-6		
Nitrobenzene	ND mg/kg	0.42	0.085	1	04/16/13 14:01	04/19/13 16:20	98-95-3		
2-Nitrophenol	ND mg/kg	0.42	0.070	1	04/16/13 14:01	04/19/13 16:20	88-75-5		
4-Nitrophenol	ND mg/kg	0.42	0.080	1	04/16/13 14:01	04/19/13 16:20	100-02-7		
N-Nitroso-di-n-propylamine	ND mg/kg	0.42	0.066	1	04/16/13 14:01	04/19/13 16:20	621-64-7		
N-Nitrosodiphenylamine	ND mg/kg	0.42	0.061	1	04/16/13 14:01	04/19/13 16:20	86-30-6		
Pentachlorophenol	ND mg/kg	0.86	0.43	1	04/16/13 14:01	04/19/13 16:20	87-86-5		
Phenanthrene	ND mg/kg	0.42	0.057	1	04/16/13 14:01	04/19/13 16:20	85-01-8		
Phenol	ND mg/kg	0.42	0.077	1	04/16/13 14:01	04/19/13 16:20	108-95-2		
Pyrene	ND mg/kg	0.42	0.059	1	04/16/13 14:01	04/19/13 16:20	129-00-0		
1,2,4-Trichlorobenzene	ND mg/kg	0.42	0.088	1	04/16/13 14:01	04/19/13 16:20	120-82-1		

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-1-16 Lab ID: 10225292003 Collected: 04/10/13 10:15 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3550							
2,4,5-Trichlorophenol	ND mg/kg		0.42	0.073	1	04/16/13 14:01	04/19/13 16:20	95-95-4	
2,4,6-Trichlorophenol	ND mg/kg		0.42	0.063	1	04/16/13 14:01	04/19/13 16:20	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	64 %		30-127		1	04/16/13 14:01	04/19/13 16:20	4165-60-0	
2-Fluorobiphenyl (S)	69 %		42-125		1	04/16/13 14:01	04/19/13 16:20	321-60-8	
Terphenyl-d14 (S)	76 %		51-125		1	04/16/13 14:01	04/19/13 16:20	1718-51-0	
Phenol-d6 (S)	69 %		30-125		1	04/16/13 14:01	04/19/13 16:20	13127-88-3	
2-Fluorophenol (S)	66 %		30-127		1	04/16/13 14:01	04/19/13 16:20	367-12-4	
2,4,6-Tribromophenol (S)	80 %		46-125		1	04/16/13 14:01	04/19/13 16:20	118-79-6	
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND mg/kg		1.3	0.64	1	04/14/13 12:52	04/14/13 20:21	67-64-1	
Allyl chloride	ND mg/kg		0.26	0.053	1	04/14/13 12:52	04/14/13 20:21	107-05-1	
Benzene	ND mg/kg		0.026	0.0061	1	04/14/13 12:52	04/14/13 20:21	71-43-2	
Bromobenzene	ND mg/kg		0.064	0.0072	1	04/14/13 12:52	04/14/13 20:21	108-86-1	
Bromochloromethane	ND mg/kg		0.064	0.022	1	04/14/13 12:52	04/14/13 20:21	74-97-5	
Bromodichloromethane	ND mg/kg		0.064	0.010	1	04/14/13 12:52	04/14/13 20:21	75-27-4	
Bromoform	ND mg/kg		0.26	0.012	1	04/14/13 12:52	04/14/13 20:21	75-25-2	
Bromomethane	ND mg/kg		0.64	0.043	1	04/14/13 12:52	04/14/13 20:21	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.32	0.16	1	04/14/13 12:52	04/14/13 20:21	78-93-3	
n-Butylbenzene	ND mg/kg		0.064	0.0084	1	04/14/13 12:52	04/14/13 20:21	104-51-8	
sec-Butylbenzene	ND mg/kg		0.064	0.0054	1	04/14/13 12:52	04/14/13 20:21	135-98-8	
tert-Butylbenzene	ND mg/kg		0.064	0.0066	1	04/14/13 12:52	04/14/13 20:21	98-06-6	
Carbon tetrachloride	ND mg/kg		0.064	0.012	1	04/14/13 12:52	04/14/13 20:21	56-23-5	
Chlorobenzene	ND mg/kg		0.064	0.0073	1	04/14/13 12:52	04/14/13 20:21	108-90-7	
Chloroethane	ND mg/kg		0.64	0.053	1	04/14/13 12:52	04/14/13 20:21	75-00-3	
Chloroform	ND mg/kg		0.064	0.0062	1	04/14/13 12:52	04/14/13 20:21	67-66-3	
Chloromethane	ND mg/kg		0.26	0.061	1	04/14/13 12:52	04/14/13 20:21	74-87-3	
2-Chlorotoluene	ND mg/kg		0.064	0.0086	1	04/14/13 12:52	04/14/13 20:21	95-49-8	
4-Chlorotoluene	ND mg/kg		0.064	0.0082	1	04/14/13 12:52	04/14/13 20:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.26	0.057	1	04/14/13 12:52	04/14/13 20:21	96-12-8	
Dibromochloromethane	ND mg/kg		0.064	0.0054	1	04/14/13 12:52	04/14/13 20:21	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.064	0.011	1	04/14/13 12:52	04/14/13 20:21	106-93-4	
Dibromomethane	ND mg/kg		0.064	0.016	1	04/14/13 12:52	04/14/13 20:21	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.064	0.0075	1	04/14/13 12:52	04/14/13 20:21	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.064	0.0052	1	04/14/13 12:52	04/14/13 20:21	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.064	0.0072	1	04/14/13 12:52	04/14/13 20:21	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.064	0.016	1	04/14/13 12:52	04/14/13 20:21	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.064	0.032	1	04/14/13 12:52	04/14/13 20:21	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.064	0.0085	1	04/14/13 12:52	04/14/13 20:21	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.064	0.0094	1	04/14/13 12:52	04/14/13 20:21	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.064	0.011	1	04/14/13 12:52	04/14/13 20:21	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.064	0.012	1	04/14/13 12:52	04/14/13 20:21	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.64	0.041	1	04/14/13 12:52	04/14/13 20:21	75-43-4	
1,2-Dichloropropane	ND mg/kg		0.064	0.032	1	04/14/13 12:52	04/14/13 20:21	78-87-5	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-1-16 Lab ID: 10225292003 Collected: 04/10/13 10:15 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,3-Dichloropropane	ND mg/kg		0.064	0.0091	1	04/14/13 12:52	04/14/13 20:21	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.26	0.0091	1	04/14/13 12:52	04/14/13 20:21	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.064	0.0089	1	04/14/13 12:52	04/14/13 20:21	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.064	0.010	1	04/14/13 12:52	04/14/13 20:21	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.064	0.011	1	04/14/13 12:52	04/14/13 20:21	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.26	0.056	1	04/14/13 12:52	04/14/13 20:21	60-29-7	
Ethylbenzene	ND mg/kg		0.064	0.0054	1	04/14/13 12:52	04/14/13 20:21	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.32	0.028	1	04/14/13 12:52	04/14/13 20:21	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.064	0.0078	1	04/14/13 12:52	04/14/13 20:21	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.064	0.0076	1	04/14/13 12:52	04/14/13 20:21	99-87-6	
Methylene Chloride	ND mg/kg		0.26	0.13	1	04/14/13 12:52	04/14/13 20:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.32	0.16	1	04/14/13 12:52	04/14/13 20:21	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.064	0.012	1	04/14/13 12:52	04/14/13 20:21	1634-04-4	
Naphthalene	ND mg/kg		0.26	0.0073	1	04/14/13 12:52	04/14/13 20:21	91-20-3	
n-Propylbenzene	ND mg/kg		0.064	0.0065	1	04/14/13 12:52	04/14/13 20:21	103-65-1	
Styrene	ND mg/kg		0.064	0.032	1	04/14/13 12:52	04/14/13 20:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.064	0.032	1	04/14/13 12:52	04/14/13 20:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.064	0.012	1	04/14/13 12:52	04/14/13 20:21	79-34-5	
Tetrachloroethene	ND mg/kg		0.064	0.0092	1	04/14/13 12:52	04/14/13 20:21	127-18-4	
Tetrahydrofuran	ND mg/kg		2.6	0.18	1	04/14/13 12:52	04/14/13 20:21	109-99-9	
Toluene	ND mg/kg		0.064	0.0097	1	04/14/13 12:52	04/14/13 20:21	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.064	0.0096	1	04/14/13 12:52	04/14/13 20:21	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.064	0.012	1	04/14/13 12:52	04/14/13 20:21	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.064	0.0088	1	04/14/13 12:52	04/14/13 20:21	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.064	0.016	1	04/14/13 12:52	04/14/13 20:21	79-00-5	
Trichloroethene	ND mg/kg		0.064	0.011	1	04/14/13 12:52	04/14/13 20:21	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.26	0.023	1	04/14/13 12:52	04/14/13 20:21	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.26	0.017	1	04/14/13 12:52	04/14/13 20:21	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.064	0.026	1	04/14/13 12:52	04/14/13 20:21	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.064	0.0077	1	04/14/13 12:52	04/14/13 20:21	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.064	0.0076	1	04/14/13 12:52	04/14/13 20:21	108-67-8	
Vinyl chloride	ND mg/kg		0.026	0.0096	1	04/14/13 12:52	04/14/13 20:21	75-01-4	
Xylene (Total)	ND mg/kg		0.19	0.021	1	04/14/13 12:52	04/14/13 20:21	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	98 %		57-150		1	04/14/13 12:52	04/14/13 20:21	17060-07-0	
Toluene-d8 (S)	97 %		70-136		1	04/14/13 12:52	04/14/13 20:21	2037-26-5	
4-Bromofluorobenzene (S)	97 %		67-138		1	04/14/13 12:52	04/14/13 20:21	460-00-4	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-2-8 Lab ID: 10225292004 Collected: 04/10/13 11:15 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	137 mg/kg		38.1	4.2	1	04/16/13 09:16	04/19/13 17:50		T6
Surrogates									
n-Triacontane (S)	64 %		50-150		1	04/16/13 09:16	04/19/13 17:50		
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Gasoline Range Organics	ND mg/kg		24.5		1	04/15/13 17:39	04/16/13 20:05		
Surrogates									
a,a,a-Trifluorotoluene (S)	100 %		80-125		1	04/15/13 17:39	04/16/13 20:05	98-08-8	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	5.7 mg/kg		4.2	0.71	1	04/19/13 07:37	04/23/13 11:42	7440-38-2	
Barium	48.7 mg/kg		2.1	0.12	1	04/19/13 07:37	04/23/13 11:42	7440-39-3	
Cadmium	ND mg/kg		0.63	0.32	1	04/19/13 07:37	04/23/13 11:42	7440-43-9	
Chromium	ND mg/kg		2.1	0.32	1	04/19/13 07:37	04/23/13 11:42	7440-47-3	
Lead	ND mg/kg		4.2	0.30	1	04/19/13 07:37	04/23/13 11:42	7439-92-1	
Selenium	8.6 mg/kg		3.2	1.0	1	04/19/13 07:37	04/23/13 11:42	7782-49-2	
Silver	ND mg/kg		2.1	0.14	1	04/19/13 07:37	04/24/13 09:27	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	ND mg/kg		0.085	0.026	1	04/19/13 07:56	04/22/13 12:55	7439-97-6	
Dry Weight Analytical Method: ASTM D2974									
Percent Moisture	78.7 %		0.10	0.10	1		04/15/13 00:00		
8270 MSSV Analytical Method: EPA 8270 Preparation Method: EPA 3550									
Acenaphthene	ND mg/kg		1.5	0.18	1	04/16/13 14:01	04/19/13 16:47	83-32-9	
Acenaphthylene	ND mg/kg		1.5	0.18	1	04/16/13 14:01	04/19/13 16:47	208-96-8	
Anthracene	ND mg/kg		1.5	0.20	1	04/16/13 14:01	04/19/13 16:47	120-12-7	
Benzidine	ND mg/kg		7.5	3.7	1	04/16/13 14:01	04/19/13 16:47	92-87-5	
Benzo(a)anthracene	ND mg/kg		1.5	0.22	1	04/16/13 14:01	04/19/13 16:47	56-55-3	
Benzo(a)pyrene	ND mg/kg		1.5	0.22	1	04/16/13 14:01	04/19/13 16:47	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		1.5	0.22	1	04/16/13 14:01	04/19/13 16:47	205-99-2	
Benzo(g,h,i)perylene	ND mg/kg		1.5	0.23	1	04/16/13 14:01	04/19/13 16:47	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		1.5	0.21	1	04/16/13 14:01	04/19/13 16:47	207-08-9	
Benzoic acid	ND mg/kg		7.9	2.1	1	04/16/13 14:01	04/19/13 16:47	65-85-0	
Benzyl alcohol	ND mg/kg		1.5	0.23	1	04/16/13 14:01	04/19/13 16:47	100-51-6	
4-Bromophenylphenyl ether	ND mg/kg		1.5	0.24	1	04/16/13 14:01	04/19/13 16:47	101-55-3	
Butylbenzylphthalate	ND mg/kg		1.5	0.21	1	04/16/13 14:01	04/19/13 16:47	85-68-7	
4-Chloro-3-methylphenol	ND mg/kg		1.5	0.18	1	04/16/13 14:01	04/19/13 16:47	59-50-7	
4-Chloroaniline	ND mg/kg		1.5	0.33	1	04/16/13 14:01	04/19/13 16:47	106-47-8	CL
bis(2-Chloroethoxy)methane	ND mg/kg		1.5	0.26	1	04/16/13 14:01	04/19/13 16:47	111-91-1	2M
bis(2-Chloroethyl) ether	ND mg/kg		1.5	0.32	1	04/16/13 14:01	04/19/13 16:47	111-44-4	
bis(2-Chloroisopropyl) ether	ND mg/kg		1.5	0.37	1	04/16/13 14:01	04/19/13 16:47	108-60-1	
2-Chloronaphthalene	ND mg/kg		1.5	0.19	1	04/16/13 14:01	04/19/13 16:47	91-58-7	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-2-8 Lab ID: 10225292004 Collected: 04/10/13 11:15 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3550							
2-Chlorophenol	ND mg/kg		1.5	0.34	1	04/16/13 14:01	04/19/13 16:47	95-57-8	
4-Chlorophenylphenyl ether	ND mg/kg		1.5	0.21	1	04/16/13 14:01	04/19/13 16:47	7005-72-3	
Chrysene	ND mg/kg		1.5	0.22	1	04/16/13 14:01	04/19/13 16:47	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		1.5	0.24	1	04/16/13 14:01	04/19/13 16:47	53-70-3	
Dibenzofuran	ND mg/kg		1.5	0.19	1	04/16/13 14:01	04/19/13 16:47	132-64-9	
1,2-Dichlorobenzene	ND mg/kg		1.5	0.33	1	04/16/13 14:01	04/19/13 16:47	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		1.5	0.35	1	04/16/13 14:01	04/19/13 16:47	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		1.5	0.33	1	04/16/13 14:01	04/19/13 16:47	106-46-7	
3,3'-Dichlorobenzidine	ND mg/kg		1.5	0.77	1	04/16/13 14:01	04/19/13 16:47	91-94-1	
2,4-Dichlorophenol	ND mg/kg		1.5	0.23	1	04/16/13 14:01	04/19/13 16:47	120-83-2	
Diethylphthalate	ND mg/kg		1.5	0.20	1	04/16/13 14:01	04/19/13 16:47	84-66-2	
2,4-Dimethylphenol	ND mg/kg		1.5	0.25	1	04/16/13 14:01	04/19/13 16:47	105-67-9	
Dimethylphthalate	ND mg/kg		1.5	0.21	1	04/16/13 14:01	04/19/13 16:47	131-11-3	
Di-n-butylphthalate	ND mg/kg		1.5	0.16	1	04/16/13 14:01	04/19/13 16:47	84-74-2	
4,6-Dinitro-2-methylphenol	ND mg/kg		7.9	1.3	1	04/16/13 14:01	04/19/13 16:47	534-52-1	
2,4-Dinitrophenol	ND mg/kg		1.5	0.22	1	04/16/13 14:01	04/19/13 16:47	51-28-5	
2,4-Dinitrotoluene	ND mg/kg		1.5	0.26	1	04/16/13 14:01	04/19/13 16:47	121-14-2	
2,6-Dinitrotoluene	ND mg/kg		1.5	0.22	1	04/16/13 14:01	04/19/13 16:47	606-20-2	
Di-n-octylphthalate	ND mg/kg		1.5	0.23	1	04/16/13 14:01	04/19/13 16:47	117-84-0	
bis(2-Ethylhexyl)phthalate	ND mg/kg		1.5	0.36	1	04/16/13 14:01	04/19/13 16:47	117-81-7	
Fluoranthene	ND mg/kg		1.5	0.19	1	04/16/13 14:01	04/19/13 16:47	206-44-0	
Fluorene	ND mg/kg		1.5	0.20	1	04/16/13 14:01	04/19/13 16:47	86-73-7	
Hexachloro-1,3-butadiene	ND mg/kg		1.5	0.38	1	04/16/13 14:01	04/19/13 16:47	87-68-3	
Hexachlorobenzene	ND mg/kg		1.5	0.22	1	04/16/13 14:01	04/19/13 16:47	118-74-1	
Hexachlorocyclopentadiene	ND mg/kg		1.5	0.77	1	04/16/13 14:01	04/19/13 16:47	77-47-4	
Hexachloroethane	ND mg/kg		1.5	0.36	1	04/16/13 14:01	04/19/13 16:47	67-72-1	
Indeno(1,2,3-cd)pyrene	ND mg/kg		1.5	0.23	1	04/16/13 14:01	04/19/13 16:47	193-39-5	
Isophorone	ND mg/kg		1.5	0.19	1	04/16/13 14:01	04/19/13 16:47	78-59-1	
2-Methylnaphthalene	ND mg/kg		1.5	0.23	1	04/16/13 14:01	04/19/13 16:47	91-57-6	
2-Methylphenol(o-Cresol)	ND mg/kg		1.5	0.24	1	04/16/13 14:01	04/19/13 16:47	95-48-7	
3&4-Methylphenol	ND mg/kg		3.1	0.21	1	04/16/13 14:01	04/19/13 16:47		
Naphthalene	ND mg/kg		1.5	0.30	1	04/16/13 14:01	04/19/13 16:47	91-20-3	
2-Nitroaniline	ND mg/kg		1.5	0.21	1	04/16/13 14:01	04/19/13 16:47	88-74-4	
3-Nitroaniline	ND mg/kg		1.5	0.30	1	04/16/13 14:01	04/19/13 16:47	99-09-2	
4-Nitroaniline	ND mg/kg		1.5	0.23	1	04/16/13 14:01	04/19/13 16:47	100-01-6	
Nitrobenzene	ND mg/kg		1.5	0.31	1	04/16/13 14:01	04/19/13 16:47	98-95-3	
2-Nitrophenol	ND mg/kg		1.5	0.26	1	04/16/13 14:01	04/19/13 16:47	88-75-5	
4-Nitrophenol	ND mg/kg		1.5	0.29	1	04/16/13 14:01	04/19/13 16:47	100-02-7	
N-Nitroso-di-n-propylamine	ND mg/kg		1.5	0.24	1	04/16/13 14:01	04/19/13 16:47	621-64-7	
N-Nitrosodiphenylamine	ND mg/kg		1.5	0.22	1	04/16/13 14:01	04/19/13 16:47	86-30-6	
Pentachlorophenol	ND mg/kg		3.1	1.6	1	04/16/13 14:01	04/19/13 16:47	87-86-5	
Phenanthrene	ND mg/kg		1.5	0.21	1	04/16/13 14:01	04/19/13 16:47	85-01-8	
Phenol	ND mg/kg		1.5	0.28	1	04/16/13 14:01	04/19/13 16:47	108-95-2	
Pyrene	ND mg/kg		1.5	0.21	1	04/16/13 14:01	04/19/13 16:47	129-00-0	
1,2,4-Trichlorobenzene	ND mg/kg		1.5	0.32	1	04/16/13 14:01	04/19/13 16:47	120-82-1	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-2-8 Lab ID: 10225292004 Collected: 04/10/13 11:15 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
2,4,5-Trichlorophenol	ND mg/kg		1.5	0.26	1	04/16/13 14:01	04/19/13 16:47	95-95-4	
2,4,6-Trichlorophenol	ND mg/kg		1.5	0.23	1	04/16/13 14:01	04/19/13 16:47	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	48 %		30-127		1	04/16/13 14:01	04/19/13 16:47	4165-60-0	
2-Fluorobiphenyl (S)	62 %		42-125		1	04/16/13 14:01	04/19/13 16:47	321-60-8	
Terphenyl-d14 (S)	77 %		51-125		1	04/16/13 14:01	04/19/13 16:47	1718-51-0	
Phenol-d6 (S)	59 %		30-125		1	04/16/13 14:01	04/19/13 16:47	13127-88-3	
2-Fluorophenol (S)	52 %		30-127		1	04/16/13 14:01	04/19/13 16:47	367-12-4	
2,4,6-Tribromophenol (S)	84 %		46-125		1	04/16/13 14:01	04/19/13 16:47	118-79-6	
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Acetone	ND mg/kg		4.8	2.4	1	04/14/13 12:52	04/14/13 20:37	67-64-1	
Allyl chloride	ND mg/kg		0.95	0.20	1	04/14/13 12:52	04/14/13 20:37	107-05-1	
Benzene	ND mg/kg		0.095	0.022	1	04/14/13 12:52	04/14/13 20:37	71-43-2	
Bromobenzene	ND mg/kg		0.24	0.027	1	04/14/13 12:52	04/14/13 20:37	108-86-1	
Bromochloromethane	ND mg/kg		0.24	0.081	1	04/14/13 12:52	04/14/13 20:37	74-97-5	
Bromodichloromethane	ND mg/kg		0.24	0.038	1	04/14/13 12:52	04/14/13 20:37	75-27-4	
Bromoform	ND mg/kg		0.95	0.044	1	04/14/13 12:52	04/14/13 20:37	75-25-2	
Bromomethane	ND mg/kg		2.4	0.16	1	04/14/13 12:52	04/14/13 20:37	74-83-9	
2-Butanone (MEK)	ND mg/kg		1.2	0.60	1	04/14/13 12:52	04/14/13 20:37	78-93-3	
n-Butylbenzene	ND mg/kg		0.24	0.031	1	04/14/13 12:52	04/14/13 20:37	104-51-8	
sec-Butylbenzene	ND mg/kg		0.24	0.020	1	04/14/13 12:52	04/14/13 20:37	135-98-8	
tert-Butylbenzene	ND mg/kg		0.24	0.025	1	04/14/13 12:52	04/14/13 20:37	98-06-6	
Carbon tetrachloride	ND mg/kg		0.24	0.046	1	04/14/13 12:52	04/14/13 20:37	56-23-5	
Chlorobenzene	ND mg/kg		0.24	0.027	1	04/14/13 12:52	04/14/13 20:37	108-90-7	
Chloroethane	ND mg/kg		2.4	0.20	1	04/14/13 12:52	04/14/13 20:37	75-00-3	
Chloroform	ND mg/kg		0.24	0.023	1	04/14/13 12:52	04/14/13 20:37	67-66-3	
Chloromethane	ND mg/kg		0.95	0.23	1	04/14/13 12:52	04/14/13 20:37	74-87-3	
2-Chlorotoluene	ND mg/kg		0.24	0.032	1	04/14/13 12:52	04/14/13 20:37	95-49-8	
4-Chlorotoluene	ND mg/kg		0.24	0.030	1	04/14/13 12:52	04/14/13 20:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.95	0.21	1	04/14/13 12:52	04/14/13 20:37	96-12-8	
Dibromochloromethane	ND mg/kg		0.24	0.020	1	04/14/13 12:52	04/14/13 20:37	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.24	0.040	1	04/14/13 12:52	04/14/13 20:37	106-93-4	
Dibromomethane	ND mg/kg		0.24	0.059	1	04/14/13 12:52	04/14/13 20:37	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.24	0.028	1	04/14/13 12:52	04/14/13 20:37	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.24	0.019	1	04/14/13 12:52	04/14/13 20:37	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.24	0.027	1	04/14/13 12:52	04/14/13 20:37	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.24	0.060	1	04/14/13 12:52	04/14/13 20:37	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.24	0.12	1	04/14/13 12:52	04/14/13 20:37	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.24	0.031	1	04/14/13 12:52	04/14/13 20:37	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.24	0.035	1	04/14/13 12:52	04/14/13 20:37	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.24	0.041	1	04/14/13 12:52	04/14/13 20:37	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.24	0.044	1	04/14/13 12:52	04/14/13 20:37	156-60-5	
Dichlorofluoromethane	ND mg/kg		2.4	0.15	1	04/14/13 12:52	04/14/13 20:37	75-43-4	
1,2-Dichloropropane	ND mg/kg		0.24	0.12	1	04/14/13 12:52	04/14/13 20:37	78-87-5	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-2-8 Lab ID: 10225292004 Collected: 04/10/13 11:15 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,3-Dichloropropane	ND mg/kg	0.24	0.034	1	04/14/13 12:52	04/14/13 20:37	142-28-9		
2,2-Dichloropropane	ND mg/kg	0.95	0.034	1	04/14/13 12:52	04/14/13 20:37	594-20-7		
1,1-Dichloropropene	ND mg/kg	0.24	0.033	1	04/14/13 12:52	04/14/13 20:37	563-58-6		
cis-1,3-Dichloropropene	ND mg/kg	0.24	0.037	1	04/14/13 12:52	04/14/13 20:37	10061-01-5		
trans-1,3-Dichloropropene	ND mg/kg	0.24	0.040	1	04/14/13 12:52	04/14/13 20:37	10061-02-6		
Diethyl ether (Ethyl ether)	ND mg/kg	0.95	0.21	1	04/14/13 12:52	04/14/13 20:37	60-29-7		
Ethylbenzene	ND mg/kg	0.24	0.020	1	04/14/13 12:52	04/14/13 20:37	100-41-4		
Hexachloro-1,3-butadiene	ND mg/kg	1.2	0.10	1	04/14/13 12:52	04/14/13 20:37	87-68-3		
Isopropylbenzene (Cumene)	ND mg/kg	0.24	0.029	1	04/14/13 12:52	04/14/13 20:37	98-82-8		
p-Isopropyltoluene	ND mg/kg	0.24	0.028	1	04/14/13 12:52	04/14/13 20:37	99-87-6		
Methylene Chloride	ND mg/kg	0.95	0.48	1	04/14/13 12:52	04/14/13 20:37	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND mg/kg	1.2	0.60	1	04/14/13 12:52	04/14/13 20:37	108-10-1		
Methyl-tert-butyl ether	ND mg/kg	0.24	0.043	1	04/14/13 12:52	04/14/13 20:37	1634-04-4		
Naphthalene	ND mg/kg	0.95	0.027	1	04/14/13 12:52	04/14/13 20:37	91-20-3		
n-Propylbenzene	ND mg/kg	0.24	0.024	1	04/14/13 12:52	04/14/13 20:37	103-65-1		
Styrene	ND mg/kg	0.24	0.12	1	04/14/13 12:52	04/14/13 20:37	100-42-5		
1,1,1,2-Tetrachloroethane	ND mg/kg	0.24	0.12	1	04/14/13 12:52	04/14/13 20:37	630-20-6		
1,1,2,2-Tetrachloroethane	ND mg/kg	0.24	0.044	1	04/14/13 12:52	04/14/13 20:37	79-34-5		
Tetrachloroethene	ND mg/kg	0.24	0.034	1	04/14/13 12:52	04/14/13 20:37	127-18-4		
Tetrahydrofuran	ND mg/kg	9.5	0.67	1	04/14/13 12:52	04/14/13 20:37	109-99-9		
Toluene	ND mg/kg	0.24	0.036	1	04/14/13 12:52	04/14/13 20:37	108-88-3		
1,2,3-Trichlorobenzene	ND mg/kg	0.24	0.036	1	04/14/13 12:52	04/14/13 20:37	87-61-6		
1,2,4-Trichlorobenzene	ND mg/kg	0.24	0.045	1	04/14/13 12:52	04/14/13 20:37	120-82-1		
1,1,1-Trichloroethane	ND mg/kg	0.24	0.033	1	04/14/13 12:52	04/14/13 20:37	71-55-6		
1,1,2-Trichloroethane	ND mg/kg	0.24	0.059	1	04/14/13 12:52	04/14/13 20:37	79-00-5		
Trichloroethene	ND mg/kg	0.24	0.041	1	04/14/13 12:52	04/14/13 20:37	79-01-6		
Trichlorofluoromethane	ND mg/kg	0.95	0.084	1	04/14/13 12:52	04/14/13 20:37	75-69-4		
1,2,3-Trichloropropane	ND mg/kg	0.95	0.064	1	04/14/13 12:52	04/14/13 20:37	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND mg/kg	0.24	0.097	1	04/14/13 12:52	04/14/13 20:37	76-13-1		
1,2,4-Trimethylbenzene	ND mg/kg	0.24	0.029	1	04/14/13 12:52	04/14/13 20:37	95-63-6		
1,3,5-Trimethylbenzene	ND mg/kg	0.24	0.028	1	04/14/13 12:52	04/14/13 20:37	108-67-8		
Vinyl chloride	ND mg/kg	0.095	0.036	1	04/14/13 12:52	04/14/13 20:37	75-01-4		
Xylene (Total)	ND mg/kg	0.72	0.079	1	04/14/13 12:52	04/14/13 20:37	1330-20-7		
Surrogates									
1,2-Dichloroethane-d4 (S)	99 %	57-150		1	04/14/13 12:52	04/14/13 20:37	17060-07-0		
Toluene-d8 (S)	96 %	70-136		1	04/14/13 12:52	04/14/13 20:37	2037-26-5		
4-Bromofluorobenzene (S)	97 %	67-138		1	04/14/13 12:52	04/14/13 20:37	460-00-4		

ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-3-8 Lab ID: 10225292005 Collected: 04/10/13 11:30 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	19300 mg/kg		2270	250	50	04/16/13 09:16	04/19/13 19:12		T6
Surrogates									
n-Triacontane (S)	0 %		50-150		50	04/16/13 09:16	04/19/13 19:12		S4
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	746 mg/kg		132		25	04/15/13 17:39	04/17/13 13:24		
Surrogates									
a,a,a-Trifluorotoluene (S)	102 %		80-125		25	04/15/13 17:39	04/17/13 13:24	98-08-8	D3
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	5.0 mg/kg		0.96	0.16	1	04/19/13 07:37	04/23/13 12:00	7440-38-2	
Barium	19.5 mg/kg		0.48	0.028	1	04/19/13 07:37	04/23/13 12:00	7440-39-3	
Cadmium	ND mg/kg		0.14	0.072	1	04/19/13 07:37	04/23/13 12:00	7440-43-9	
Chromium	6.2 mg/kg		0.48	0.073	1	04/19/13 07:37	04/23/13 12:00	7440-47-3	
Lead	1.7 mg/kg		0.96	0.069	1	04/19/13 07:37	04/23/13 12:00	7439-92-1	
Selenium	1.0 mg/kg		0.72	0.24	1	04/19/13 07:37	04/23/13 12:00	7782-49-2	
Silver	ND mg/kg		0.48	0.033	1	04/19/13 07:37	04/24/13 09:32	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.020	0.0059	1	04/19/13 07:56	04/22/13 12:57	7439-97-6	
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	6.8 %		0.10	0.10	1			04/15/13 00:00	
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
Acenaphthene	346 mg/kg		88.5	10.5	50	04/16/13 14:01	04/22/13 15:49	83-32-9	
Acenaphthylene	ND mg/kg		17.7	2.0	10	04/16/13 14:01	04/22/13 13:06	208-96-8	
Anthracene	112 mg/kg		17.7	2.3	10	04/16/13 14:01	04/22/13 13:06	120-12-7	
Benzidine	ND mg/kg		85.9	42.9	10	04/16/13 14:01	04/22/13 13:06	92-87-5	L2,SS
Benzo(a)anthracene	134 mg/kg		17.7	2.5	10	04/16/13 14:01	04/22/13 13:06	56-55-3	
Benzo(a)pyrene	89.6 mg/kg		17.7	2.5	10	04/16/13 14:01	04/22/13 13:06	50-32-8	
Benzo(b)fluoranthene	134 mg/kg		17.7	2.5	10	04/16/13 14:01	04/22/13 13:06	205-99-2	
Benzo(g,h,i)perylene	41.6 mg/kg		17.7	2.7	10	04/16/13 14:01	04/22/13 13:06	191-24-2	
Benzo(k)fluoranthene	52.8 mg/kg		17.7	2.5	10	04/16/13 14:01	04/22/13 13:06	207-08-9	
Benzoic acid	ND mg/kg		91.2	24.6	10	04/16/13 14:01	04/22/13 13:06	65-85-0	
Benzyl alcohol	ND mg/kg		17.7	2.6	10	04/16/13 14:01	04/22/13 13:06	100-51-6	
4-Bromophenylphenyl ether	ND mg/kg		17.7	2.7	10	04/16/13 14:01	04/22/13 13:06	101-55-3	
Butylbenzylphthalate	ND mg/kg		17.7	2.4	10	04/16/13 14:01	04/22/13 13:06	85-68-7	
4-Chloro-3-methylphenol	ND mg/kg		17.7	2.1	10	04/16/13 14:01	04/22/13 13:06	59-50-7	
4-Chloroaniline	ND mg/kg		17.7	3.8	10	04/16/13 14:01	04/22/13 13:06	106-47-8	CL
bis(2-Chloroethoxy)methane	ND mg/kg		17.7	3.0	10	04/16/13 14:01	04/22/13 13:06	111-91-1	2M
bis(2-Chloroethyl) ether	ND mg/kg		17.7	3.6	10	04/16/13 14:01	04/22/13 13:06	111-44-4	
bis(2-Chloroisopropyl) ether	ND mg/kg		17.7	4.2	10	04/16/13 14:01	04/22/13 13:06	108-60-1	
2-Chloronaphthalene	ND mg/kg		17.7	2.1	10	04/16/13 14:01	04/22/13 13:06	91-58-7	
2-Chlorophenol	ND mg/kg		17.7	3.9	10	04/16/13 14:01	04/22/13 13:06	95-57-8	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-3-8 Lab ID: 10225292005 Collected: 04/10/13 11:30 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3550							
4-Chlorophenylphenyl ether	ND mg/kg	17.7	2.4	10	04/16/13 14:01	04/22/13 13:06	7005-72-3		
Chrysene	116 mg/kg	17.7	2.5	10	04/16/13 14:01	04/22/13 13:06	218-01-9		
Dibenz(a,h)anthracene	ND mg/kg	17.7	2.8	10	04/16/13 14:01	04/22/13 13:06	53-70-3		
Dibenzofuran	169 mg/kg	17.7	2.2	10	04/16/13 14:01	04/22/13 13:06	132-64-9		
1,2-Dichlorobenzene	ND mg/kg	17.7	3.8	10	04/16/13 14:01	04/22/13 13:06	95-50-1		
1,3-Dichlorobenzene	ND mg/kg	17.7	4.1	10	04/16/13 14:01	04/22/13 13:06	541-73-1		
1,4-Dichlorobenzene	ND mg/kg	17.7	3.8	10	04/16/13 14:01	04/22/13 13:06	106-46-7		
3,3'-Dichlorobenzidine	ND mg/kg	17.7	8.9	10	04/16/13 14:01	04/22/13 13:06	91-94-1		
2,4-Dichlorophenol	ND mg/kg	17.7	2.7	10	04/16/13 14:01	04/22/13 13:06	120-83-2		
Diethylphthalate	ND mg/kg	17.7	2.3	10	04/16/13 14:01	04/22/13 13:06	84-66-2		
2,4-Dimethylphenol	ND mg/kg	17.7	2.9	10	04/16/13 14:01	04/22/13 13:06	105-67-9		
Dimethylphthalate	ND mg/kg	17.7	2.5	10	04/16/13 14:01	04/22/13 13:06	131-11-3		
Di-n-butylphthalate	ND mg/kg	17.7	1.8	10	04/16/13 14:01	04/22/13 13:06	84-74-2		
4,6-Dinitro-2-methylphenol	ND mg/kg	91.2	14.9	10	04/16/13 14:01	04/22/13 13:06	534-52-1		
2,4-Dinitrophenol	ND mg/kg	17.7	2.5	10	04/16/13 14:01	04/22/13 13:06	51-28-5		
2,4-Dinitrotoluene	ND mg/kg	17.7	2.9	10	04/16/13 14:01	04/22/13 13:06	121-14-2		
2,6-Dinitrotoluene	ND mg/kg	17.7	2.5	10	04/16/13 14:01	04/22/13 13:06	606-20-2		
Di-n-octylphthalate	ND mg/kg	17.7	2.6	10	04/16/13 14:01	04/22/13 13:06	117-84-0		
bis(2-Ethylhexyl)phthalate	ND mg/kg	17.7	4.2	10	04/16/13 14:01	04/22/13 13:06	117-81-7		
Fluoranthene	602 mg/kg	88.5	10.8	50	04/16/13 14:01	04/22/13 15:49	206-44-0		
Fluorene	229 mg/kg	17.7	2.3	10	04/16/13 14:01	04/22/13 13:06	86-73-7		
Hexachloro-1,3-butadiene	ND mg/kg	17.7	4.4	10	04/16/13 14:01	04/22/13 13:06	87-68-3		
Hexachlorobenzene	ND mg/kg	17.7	2.5	10	04/16/13 14:01	04/22/13 13:06	118-74-1		
Hexachlorocyclopentadiene	ND mg/kg	17.7	8.9	10	04/16/13 14:01	04/22/13 13:06	77-47-4		
Hexachloroethane	ND mg/kg	17.7	4.2	10	04/16/13 14:01	04/22/13 13:06	67-72-1		
Indeno(1,2,3-cd)pyrene	35.9 mg/kg	17.7	2.6	10	04/16/13 14:01	04/22/13 13:06	193-39-5		
Isophorone	ND mg/kg	17.7	2.1	10	04/16/13 14:01	04/22/13 13:06	78-59-1		
2-Methylnaphthalene	211 mg/kg	17.7	2.6	10	04/16/13 14:01	04/22/13 13:06	91-57-6		
2-Methylphenol(o-Cresol)	ND mg/kg	17.7	2.7	10	04/16/13 14:01	04/22/13 13:06	95-48-7		
3&4-Methylphenol	ND mg/kg	35.4	2.4	10	04/16/13 14:01	04/22/13 13:06			
Naphthalene	849 mg/kg	88.5	17.2	50	04/16/13 14:01	04/22/13 15:49	91-20-3		
2-Nitroaniline	ND mg/kg	17.7	2.5	10	04/16/13 14:01	04/22/13 13:06	88-74-4		
3-Nitroaniline	ND mg/kg	17.7	3.5	10	04/16/13 14:01	04/22/13 13:06	99-09-2		
4-Nitroaniline	ND mg/kg	17.7	2.6	10	04/16/13 14:01	04/22/13 13:06	100-01-6		
Nitrobenzene	ND mg/kg	17.7	3.6	10	04/16/13 14:01	04/22/13 13:06	98-95-3		
2-Nitrophenol	ND mg/kg	17.7	2.9	10	04/16/13 14:01	04/22/13 13:06	88-75-5		
4-Nitrophenol	ND mg/kg	17.7	3.3	10	04/16/13 14:01	04/22/13 13:06	100-02-7		
N-Nitroso-di-n-propylamine	ND mg/kg	17.7	2.8	10	04/16/13 14:01	04/22/13 13:06	621-64-7		
N-Nitrosodiphenylamine	ND mg/kg	17.7	2.6	10	04/16/13 14:01	04/22/13 13:06	86-30-6		
Pentachlorophenol	ND mg/kg	36.0	18.0	10	04/16/13 14:01	04/22/13 13:06	87-86-5		
Phenanthrene	857 mg/kg	88.5	11.8	50	04/16/13 14:01	04/22/13 15:49	85-01-8		
Phenol	ND mg/kg	17.7	3.2	10	04/16/13 14:01	04/22/13 13:06	108-95-2		
Pyrene	439 mg/kg	88.5	12.3	50	04/16/13 14:01	04/22/13 15:49	129-00-0		
1,2,4-Trichlorobenzene	ND mg/kg	17.7	3.7	10	04/16/13 14:01	04/22/13 13:06	120-82-1		
2,4,5-Trichlorophenol	ND mg/kg	17.7	3.0	10	04/16/13 14:01	04/22/13 13:06	95-95-4		

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-3-8 Lab ID: 10225292005 Collected: 04/10/13 11:30 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
2,4,6-Trichlorophenol	ND mg/kg		17.7	2.6	10	04/16/13 14:01	04/22/13 13:06	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	0 %		30-127		10	04/16/13 14:01	04/22/13 13:06	4165-60-0	D4,P3, S4
2-Fluorobiphenyl (S)	0 %		42-125		10	04/16/13 14:01	04/22/13 13:06	321-60-8	S4
Terphenyl-d14 (S)	0 %		51-125		10	04/16/13 14:01	04/22/13 13:06	1718-51-0	S4
Phenol-d6 (S)	0 %		30-125		10	04/16/13 14:01	04/22/13 13:06	13127-88-3	S4
2-Fluorophenol (S)	0 %		30-127		10	04/16/13 14:01	04/22/13 13:06	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		46-125		10	04/16/13 14:01	04/22/13 13:06	118-79-6	S4
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Acetone	ND mg/kg		53.7	26.9	50	04/14/13 12:52	04/15/13 00:31	67-64-1	
Allyl chloride	ND mg/kg		10.7	2.2	50	04/14/13 12:52	04/15/13 00:31	107-05-1	
Benzene	ND mg/kg		1.1	0.25	50	04/14/13 12:52	04/15/13 00:31	71-43-2	
Bromobenzene	ND mg/kg		2.7	0.30	50	04/14/13 12:52	04/15/13 00:31	108-86-1	
Bromoform	ND mg/kg		2.7	0.91	50	04/14/13 12:52	04/15/13 00:31	74-97-5	
Bromochloromethane	ND mg/kg		2.7	0.42	50	04/14/13 12:52	04/15/13 00:31	75-27-4	
Bromodichloromethane	ND mg/kg		10.7	0.50	50	04/14/13 12:52	04/15/13 00:31	75-25-2	
Bromoform	ND mg/kg		26.9	1.8	50	04/14/13 12:52	04/15/13 00:31	74-83-9	
2-Butanone (MEK)	ND mg/kg		13.4	6.7	50	04/14/13 12:52	04/15/13 00:31	78-93-3	
n-Butylbenzene	ND mg/kg		2.7	0.35	50	04/14/13 12:52	04/15/13 00:31	104-51-8	
sec-Butylbenzene	ND mg/kg		2.7	0.23	50	04/14/13 12:52	04/15/13 00:31	135-98-8	
tert-Butylbenzene	ND mg/kg		2.7	0.28	50	04/14/13 12:52	04/15/13 00:31	98-06-6	
Carbon tetrachloride	ND mg/kg		2.7	0.52	50	04/14/13 12:52	04/15/13 00:31	56-23-5	
Chlorobenzene	ND mg/kg		2.7	0.31	50	04/14/13 12:52	04/15/13 00:31	108-90-7	
Chloroethane	ND mg/kg		26.9	2.2	50	04/14/13 12:52	04/15/13 00:31	75-00-3	
Chloroform	ND mg/kg		2.7	0.26	50	04/14/13 12:52	04/15/13 00:31	67-66-3	
Chloromethane	ND mg/kg		10.7	2.5	50	04/14/13 12:52	04/15/13 00:31	74-87-3	
2-Chlorotoluene	ND mg/kg		2.7	0.36	50	04/14/13 12:52	04/15/13 00:31	95-49-8	
4-Chlorotoluene	ND mg/kg		2.7	0.34	50	04/14/13 12:52	04/15/13 00:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		10.7	2.4	50	04/14/13 12:52	04/15/13 00:31	96-12-8	
Dibromochloromethane	ND mg/kg		2.7	0.23	50	04/14/13 12:52	04/15/13 00:31	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		2.7	0.45	50	04/14/13 12:52	04/15/13 00:31	106-93-4	
Dibromomethane	ND mg/kg		2.7	0.67	50	04/14/13 12:52	04/15/13 00:31	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		2.7	0.31	50	04/14/13 12:52	04/15/13 00:31	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		2.7	0.22	50	04/14/13 12:52	04/15/13 00:31	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		2.7	0.30	50	04/14/13 12:52	04/15/13 00:31	106-46-7	
Dichlorodifluoromethane	ND mg/kg		2.7	0.68	50	04/14/13 12:52	04/15/13 00:31	75-71-8	
1,1-Dichloroethane	ND mg/kg		2.7	1.3	50	04/14/13 12:52	04/15/13 00:31	75-34-3	
1,2-Dichloroethane	ND mg/kg		2.7	0.35	50	04/14/13 12:52	04/15/13 00:31	107-06-2	
1,1-Dichloroethene	ND mg/kg		2.7	0.39	50	04/14/13 12:52	04/15/13 00:31	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		2.7	0.46	50	04/14/13 12:52	04/15/13 00:31	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		2.7	0.50	50	04/14/13 12:52	04/15/13 00:31	156-60-5	
Dichlorofluoromethane	ND mg/kg		26.9	1.7	50	04/14/13 12:52	04/15/13 00:31	75-43-4	
1,2-Dichloropropane	ND mg/kg		2.7	1.3	50	04/14/13 12:52	04/15/13 00:31	78-87-5	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-3-8 Lab ID: 10225292005 Collected: 04/10/13 11:30 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,3-Dichloropropane	ND mg/kg		2.7	0.38	50	04/14/13 12:52	04/15/13 00:31	142-28-9	
2,2-Dichloropropane	ND mg/kg		10.7	0.38	50	04/14/13 12:52	04/15/13 00:31	594-20-7	
1,1-Dichloropropene	ND mg/kg		2.7	0.37	50	04/14/13 12:52	04/15/13 00:31	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		2.7	0.42	50	04/14/13 12:52	04/15/13 00:31	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		2.7	0.45	50	04/14/13 12:52	04/15/13 00:31	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		10.7	2.3	50	04/14/13 12:52	04/15/13 00:31	60-29-7	
Ethylbenzene	ND mg/kg		2.7	0.22	50	04/14/13 12:52	04/15/13 00:31	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		13.4	1.2	50	04/14/13 12:52	04/15/13 00:31	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		2.7	0.32	50	04/14/13 12:52	04/15/13 00:31	98-82-8	
p-Isopropyltoluene	ND mg/kg		2.7	0.32	50	04/14/13 12:52	04/15/13 00:31	99-87-6	
Methylene Chloride	ND mg/kg		10.7	5.4	50	04/14/13 12:52	04/15/13 00:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		13.4	6.7	50	04/14/13 12:52	04/15/13 00:31	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		2.7	0.48	50	04/14/13 12:52	04/15/13 00:31	1634-04-4	
Naphthalene	2100 mg/kg		107	3.1	500	04/14/13 12:52	04/15/13 16:51	91-20-3	
n-Propylbenzene	ND mg/kg		2.7	0.27	50	04/14/13 12:52	04/15/13 00:31	103-65-1	
Styrene	ND mg/kg		2.7	1.3	50	04/14/13 12:52	04/15/13 00:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		2.7	1.3	50	04/14/13 12:52	04/15/13 00:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		2.7	0.50	50	04/14/13 12:52	04/15/13 00:31	79-34-5	
Tetrachloroethene	ND mg/kg		2.7	0.38	50	04/14/13 12:52	04/15/13 00:31	127-18-4	
Tetrahydrofuran	ND mg/kg		107	7.6	50	04/14/13 12:52	04/15/13 00:31	109-99-9	
Toluene	ND mg/kg		2.7	0.41	50	04/14/13 12:52	04/15/13 00:31	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		2.7	0.40	50	04/14/13 12:52	04/15/13 00:31	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		2.7	0.51	50	04/14/13 12:52	04/15/13 00:31	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		2.7	0.37	50	04/14/13 12:52	04/15/13 00:31	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		2.7	0.66	50	04/14/13 12:52	04/15/13 00:31	79-00-5	
Trichloroethene	ND mg/kg		2.7	0.47	50	04/14/13 12:52	04/15/13 00:31	79-01-6	
Trichlorofluoromethane	ND mg/kg		10.7	0.95	50	04/14/13 12:52	04/15/13 00:31	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		10.7	0.72	50	04/14/13 12:52	04/15/13 00:31	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		2.7	1.1	50	04/14/13 12:52	04/15/13 00:31	76-13-1	
1,2,4-Trimethylbenzene	6.6 mg/kg		2.7	0.32	50	04/14/13 12:52	04/15/13 00:31	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		2.7	0.32	50	04/14/13 12:52	04/15/13 00:31	108-67-8	
Vinyl chloride	ND mg/kg		1.1	0.40	50	04/14/13 12:52	04/15/13 00:31	75-01-4	
Xylene (Total)	ND mg/kg		8.1	0.89	50	04/14/13 12:52	04/15/13 00:31	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	94 %		57-150		50	04/14/13 12:52	04/15/13 00:31	17060-07-0	
Toluene-d8 (S)	96 %		70-136		50	04/14/13 12:52	04/15/13 00:31	2037-26-5	
4-Bromofluorobenzene (S)	97 %		67-138		50	04/14/13 12:52	04/15/13 00:31	460-00-4	
8260 MSV TCLP		Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 04/19/13 12:03							
Benzene	ND ug/L		50.0	4.0	1		04/23/13 09:00	71-43-2	
2-Butanone (MEK)	ND ug/L		200	12.0	1		04/23/13 09:00	78-93-3	
Carbon tetrachloride	ND ug/L		200	6.0	1		04/23/13 09:00	56-23-5	
Chlorobenzene	ND ug/L		50.0	4.0	1		04/23/13 09:00	108-90-7	
Chloroform	ND ug/L		50.0	6.0	1		04/23/13 09:00	67-66-3	
1,4-Dichlorobenzene	ND ug/L		50.0	7.0	1		04/23/13 09:00	106-46-7	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-3-8 Lab ID: 10225292005 Collected: 04/10/13 11:30 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV TCLP Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 04/19/13 12:03									
1,2-Dichloroethane	ND ug/L		50.0	6.0	1		04/23/13 09:00	107-06-2	
1,1-Dichloroethene	ND ug/L		50.0	11.0	1		04/23/13 09:00	75-35-4	
Tetrachloroethene	ND ug/L		50.0	4.0	1		04/23/13 09:00	127-18-4	
Trichloroethene	ND ug/L		50.0	5.0	1		04/23/13 09:00	79-01-6	
Vinyl chloride	ND ug/L		20.0	5.0	1		04/23/13 09:00	75-01-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	99 %		75-125		1		04/23/13 09:00	17060-07-0	
Toluene-d8 (S)	98 %		75-125		1		04/23/13 09:00	2037-26-5	
4-Bromofluorobenzene (S)	94 %		75-125		1		04/23/13 09:00	460-00-4	

ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-3-4 Lab ID: 10225292006 Collected: 04/10/13 12:00 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	2130 mg/kg		796	87.6	20	04/16/13 09:16	04/19/13 18:17		T6
Surrogates									
n-Triacontane (S)	0 %		50-150		20	04/16/13 09:16	04/19/13 18:17		S4
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	71.8 mg/kg		5.1		1	04/15/13 17:39	04/16/13 20:25		
Surrogates									
a,a,a-Trifluorotoluene (S)	87 %		80-125		1	04/15/13 17:39	04/16/13 20:25	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	4.9 mg/kg		0.79	0.13	1	04/19/13 07:37	04/23/13 12:05	7440-38-2	
Barium	24.8 mg/kg		0.39	0.023	1	04/19/13 07:37	04/23/13 12:05	7440-39-3	
Cadmium	0.14 mg/kg		0.12	0.059	1	04/19/13 07:37	04/23/13 12:05	7440-43-9	
Chromium	8.9 mg/kg		0.39	0.060	1	04/19/13 07:37	04/23/13 12:05	7440-47-3	
Lead	41.3 mg/kg		0.79	0.057	1	04/19/13 07:37	04/23/13 12:05	7439-92-1	
Selenium	ND mg/kg		0.59	0.19	1	04/19/13 07:37	04/23/13 12:05	7782-49-2	
Silver	ND mg/kg		0.39	0.027	1	04/19/13 07:37	04/24/13 09:38	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	0.022 mg/kg		0.018	0.0055	1	04/19/13 07:56	04/22/13 13:04	7439-97-6	
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	3.7 %		0.10	0.10	1		04/15/13 00:00		
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
Acenaphthene	25.7 mg/kg		2.7	0.32	2	04/16/13 14:01	04/22/13 16:16	83-32-9	
Acenaphthylene	ND mg/kg		2.7	0.32	2	04/16/13 14:01	04/22/13 16:16	208-96-8	
Anthracene	15.5 mg/kg		2.7	0.35	2	04/16/13 14:01	04/22/13 16:16	120-12-7	
Benzidine	ND mg/kg		13.3	6.6	2	04/16/13 14:01	04/22/13 16:16	92-87-5	L2,SS
Benzo(a)anthracene	14.9 mg/kg		2.7	0.39	2	04/16/13 14:01	04/22/13 16:16	56-55-3	
Benzo(a)pyrene	11.7 mg/kg		2.7	0.39	2	04/16/13 14:01	04/22/13 16:16	50-32-8	
Benzo(b)fluoranthene	18.1 mg/kg		2.7	0.39	2	04/16/13 14:01	04/22/13 16:16	205-99-2	
Benzo(g,h,i)perylene	5.7 mg/kg		2.7	0.42	2	04/16/13 14:01	04/22/13 16:16	191-24-2	
Benzo(k)fluoranthene	6.3 mg/kg		2.7	0.38	2	04/16/13 14:01	04/22/13 16:16	207-08-9	
Benzoic acid	ND mg/kg		14.1	3.8	2	04/16/13 14:01	04/22/13 16:16	65-85-0	
Benzyl alcohol	ND mg/kg		2.7	0.40	2	04/16/13 14:01	04/22/13 16:16	100-51-6	
4-Bromophenylphenyl ether	ND mg/kg		2.7	0.42	2	04/16/13 14:01	04/22/13 16:16	101-55-3	
Butylbenzylphthalate	ND mg/kg		2.7	0.37	2	04/16/13 14:01	04/22/13 16:16	85-68-7	
4-Chloro-3-methylphenol	ND mg/kg		2.7	0.32	2	04/16/13 14:01	04/22/13 16:16	59-50-7	
4-Chloroaniline	ND mg/kg		2.7	0.59	2	04/16/13 14:01	04/22/13 16:16	106-47-8	CL
bis(2-Chloroethoxy)methane	ND mg/kg		2.7	0.47	2	04/16/13 14:01	04/22/13 16:16	111-91-1	2M
bis(2-Chloroethyl) ether	ND mg/kg		2.7	0.56	2	04/16/13 14:01	04/22/13 16:16	111-44-4	
bis(2-Chloroisopropyl) ether	ND mg/kg		2.7	0.65	2	04/16/13 14:01	04/22/13 16:16	108-60-1	
2-Chloronaphthalene	ND mg/kg		2.7	0.33	2	04/16/13 14:01	04/22/13 16:16	91-58-7	
2-Chlorophenol	ND mg/kg		2.7	0.60	2	04/16/13 14:01	04/22/13 16:16	95-57-8	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-3-4 Lab ID: 10225292006 Collected: 04/10/13 12:00 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3550							
4-Chlorophenylphenyl ether	ND mg/kg		2.7	0.37	2	04/16/13 14:01	04/22/13 16:16	7005-72-3	
Chrysene	19.5 mg/kg		2.7	0.39	2	04/16/13 14:01	04/22/13 16:16	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		2.7	0.43	2	04/16/13 14:01	04/22/13 16:16	53-70-3	
Dibenzofuran	12.8 mg/kg		2.7	0.33	2	04/16/13 14:01	04/22/13 16:16	132-64-9	
1,2-Dichlorobenzene	ND mg/kg		2.7	0.59	2	04/16/13 14:01	04/22/13 16:16	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		2.7	0.63	2	04/16/13 14:01	04/22/13 16:16	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		2.7	0.58	2	04/16/13 14:01	04/22/13 16:16	106-46-7	
3,3'-Dichlorobenzidine	ND mg/kg		2.7	1.4	2	04/16/13 14:01	04/22/13 16:16	91-94-1	
2,4-Dichlorophenol	ND mg/kg		2.7	0.41	2	04/16/13 14:01	04/22/13 16:16	120-83-2	
Diethylphthalate	ND mg/kg		2.7	0.36	2	04/16/13 14:01	04/22/13 16:16	84-66-2	
2,4-Dimethylphenol	ND mg/kg		2.7	0.45	2	04/16/13 14:01	04/22/13 16:16	105-67-9	
Dimethylphthalate	ND mg/kg		2.7	0.38	2	04/16/13 14:01	04/22/13 16:16	131-11-3	
Di-n-butylphthalate	ND mg/kg		2.7	0.28	2	04/16/13 14:01	04/22/13 16:16	84-74-2	
4,6-Dinitro-2-methylphenol	ND mg/kg		14.1	2.3	2	04/16/13 14:01	04/22/13 16:16	534-52-1	
2,4-Dinitrophenol	ND mg/kg		2.7	0.39	2	04/16/13 14:01	04/22/13 16:16	51-28-5	
2,4-Dinitrotoluene	ND mg/kg		2.7	0.46	2	04/16/13 14:01	04/22/13 16:16	121-14-2	
2,6-Dinitrotoluene	ND mg/kg		2.7	0.38	2	04/16/13 14:01	04/22/13 16:16	606-20-2	
Di-n-octylphthalate	ND mg/kg		2.7	0.40	2	04/16/13 14:01	04/22/13 16:16	117-84-0	
bis(2-Ethylhexyl)phthalate	ND mg/kg		2.7	0.64	2	04/16/13 14:01	04/22/13 16:16	117-81-7	
Fluoranthene	55.1 mg/kg		13.7	1.7	10	04/16/13 14:01	04/22/13 13:33	206-44-0	
Fluorene	22.6 mg/kg		2.7	0.35	2	04/16/13 14:01	04/22/13 16:16	86-73-7	
Hexachloro-1,3-butadiene	ND mg/kg		2.7	0.68	2	04/16/13 14:01	04/22/13 16:16	87-68-3	
Hexachlorobenzene	ND mg/kg		2.7	0.39	2	04/16/13 14:01	04/22/13 16:16	118-74-1	
Hexachlorocyclopentadiene	ND mg/kg		2.7	1.4	2	04/16/13 14:01	04/22/13 16:16	77-47-4	
Hexachloroethane	ND mg/kg		2.7	0.65	2	04/16/13 14:01	04/22/13 16:16	67-72-1	
Indeno(1,2,3-cd)pyrene	5.2 mg/kg		2.7	0.40	2	04/16/13 14:01	04/22/13 16:16	193-39-5	
Isophorone	ND mg/kg		2.7	0.33	2	04/16/13 14:01	04/22/13 16:16	78-59-1	
2-Methylnaphthalene	ND mg/kg		2.7	0.41	2	04/16/13 14:01	04/22/13 16:16	91-57-6	
2-Methylphenol(o-Cresol)	ND mg/kg		2.7	0.42	2	04/16/13 14:01	04/22/13 16:16	95-48-7	
3&4-Methylphenol	ND mg/kg		5.5	0.37	2	04/16/13 14:01	04/22/13 16:16		
Naphthalene	ND mg/kg		2.7	0.53	2	04/16/13 14:01	04/22/13 16:16	91-20-3	
2-Nitroaniline	ND mg/kg		2.7	0.38	2	04/16/13 14:01	04/22/13 16:16	88-74-4	
3-Nitroaniline	ND mg/kg		2.7	0.54	2	04/16/13 14:01	04/22/13 16:16	99-09-2	
4-Nitroaniline	ND mg/kg		2.7	0.40	2	04/16/13 14:01	04/22/13 16:16	100-01-6	
Nitrobenzene	ND mg/kg		2.7	0.55	2	04/16/13 14:01	04/22/13 16:16	98-95-3	
2-Nitrophenol	ND mg/kg		2.7	0.45	2	04/16/13 14:01	04/22/13 16:16	88-75-5	
4-Nitrophenol	ND mg/kg		2.7	0.52	2	04/16/13 14:01	04/22/13 16:16	100-02-7	
N-Nitroso-di-n-propylamine	ND mg/kg		2.7	0.43	2	04/16/13 14:01	04/22/13 16:16	621-64-7	
N-Nitrosodiphenylamine	ND mg/kg		2.7	0.40	2	04/16/13 14:01	04/22/13 16:16	86-30-6	
Pentachlorophenol	ND mg/kg		5.6	2.8	2	04/16/13 14:01	04/22/13 16:16	87-86-5	
Phenanthrene	61.1 mg/kg		13.7	1.8	10	04/16/13 14:01	04/22/13 13:33	85-01-8	
Phenol	ND mg/kg		2.7	0.50	2	04/16/13 14:01	04/22/13 16:16	108-95-2	
Pyrene	47.3 mg/kg		13.7	1.9	10	04/16/13 14:01	04/22/13 13:33	129-00-0	
1,2,4-Trichlorobenzene	ND mg/kg		2.7	0.57	2	04/16/13 14:01	04/22/13 16:16	120-82-1	
2,4,5-Trichlorophenol	ND mg/kg		2.7	0.47	2	04/16/13 14:01	04/22/13 16:16	95-95-4	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-3-4 Lab ID: 10225292006 Collected: 04/10/13 12:00 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
2,4,6-Trichlorophenol	ND mg/kg		2.7	0.41	2	04/16/13 14:01	04/22/13 16:16	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	70 %		30-127		2	04/16/13 14:01	04/22/13 16:16	4165-60-0	D4,P3
2-Fluorobiphenyl (S)	85 %		42-125		2	04/16/13 14:01	04/22/13 16:16	321-60-8	
Terphenyl-d14 (S)	84 %		51-125		2	04/16/13 14:01	04/22/13 16:16	1718-51-0	
Phenol-d6 (S)	81 %		30-125		2	04/16/13 14:01	04/22/13 16:16	13127-88-3	
2-Fluorophenol (S)	81 %		30-127		2	04/16/13 14:01	04/22/13 16:16	367-12-4	
2,4,6-Tribromophenol (S)	83 %		46-125		2	04/16/13 14:01	04/22/13 16:16	118-79-6	
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Acetone	ND mg/kg		1.1	0.53	1	04/14/13 12:52	04/16/13 19:46	67-64-1	
Allyl chloride	ND mg/kg		0.21	0.043	1	04/14/13 12:52	04/16/13 19:46	107-05-1	
Benzene	ND mg/kg		0.021	0.0049	1	04/14/13 12:52	04/16/13 19:46	71-43-2	
Bromobenzene	ND mg/kg		0.053	0.0059	1	04/14/13 12:52	04/16/13 19:46	108-86-1	
Bromochloromethane	ND mg/kg		0.053	0.018	1	04/14/13 12:52	04/16/13 19:46	74-97-5	
Bromodichloromethane	ND mg/kg		0.053	0.0083	1	04/14/13 12:52	04/16/13 19:46	75-27-4	
Bromoform	ND mg/kg		0.21	0.0098	1	04/14/13 12:52	04/16/13 19:46	75-25-2	
Bromomethane	ND mg/kg		0.53	0.035	1	04/14/13 12:52	04/16/13 19:46	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.26	0.13	1	04/14/13 12:52	04/16/13 19:46	78-93-3	
n-Butylbenzene	ND mg/kg		0.053	0.0069	1	04/14/13 12:52	04/16/13 19:46	104-51-8	
sec-Butylbenzene	ND mg/kg		0.053	0.0044	1	04/14/13 12:52	04/16/13 19:46	135-98-8	
tert-Butylbenzene	ND mg/kg		0.053	0.0054	1	04/14/13 12:52	04/16/13 19:46	98-06-6	
Carbon tetrachloride	ND mg/kg		0.053	0.010	1	04/14/13 12:52	04/16/13 19:46	56-23-5	
Chlorobenzene	ND mg/kg		0.053	0.0060	1	04/14/13 12:52	04/16/13 19:46	108-90-7	
Chloroethane	ND mg/kg		0.53	0.043	1	04/14/13 12:52	04/16/13 19:46	75-00-3	
Chloroform	ND mg/kg		0.053	0.0051	1	04/14/13 12:52	04/16/13 19:46	67-66-3	
Chloromethane	ND mg/kg		0.21	0.050	1	04/14/13 12:52	04/16/13 19:46	74-87-3	
2-Chlorotoluene	ND mg/kg		0.053	0.0070	1	04/14/13 12:52	04/16/13 19:46	95-49-8	
4-Chlorotoluene	ND mg/kg		0.053	0.0067	1	04/14/13 12:52	04/16/13 19:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.21	0.047	1	04/14/13 12:52	04/16/13 19:46	96-12-8	
Dibromochloromethane	ND mg/kg		0.053	0.0044	1	04/14/13 12:52	04/16/13 19:46	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.053	0.0088	1	04/14/13 12:52	04/16/13 19:46	106-93-4	
Dibromomethane	ND mg/kg		0.053	0.013	1	04/14/13 12:52	04/16/13 19:46	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.053	0.0061	1	04/14/13 12:52	04/16/13 19:46	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.053	0.0042	1	04/14/13 12:52	04/16/13 19:46	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.053	0.0059	1	04/14/13 12:52	04/16/13 19:46	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.053	0.013	1	04/14/13 12:52	04/16/13 19:46	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.053	0.026	1	04/14/13 12:52	04/16/13 19:46	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.053	0.0069	1	04/14/13 12:52	04/16/13 19:46	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.053	0.0077	1	04/14/13 12:52	04/16/13 19:46	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.053	0.0090	1	04/14/13 12:52	04/16/13 19:46	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.053	0.0098	1	04/14/13 12:52	04/16/13 19:46	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.53	0.034	1	04/14/13 12:52	04/16/13 19:46	75-43-4	
1,2-Dichloropropane	ND mg/kg		0.053	0.026	1	04/14/13 12:52	04/16/13 19:46	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.053	0.0074	1	04/14/13 12:52	04/16/13 19:46	142-28-9	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-3-4 Lab ID: 10225292006 Collected: 04/10/13 12:00 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
2,2-Dichloropropane	ND mg/kg		0.21	0.0075	1	04/14/13 12:52	04/16/13 19:46	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.053	0.0072	1	04/14/13 12:52	04/16/13 19:46	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.053	0.0081	1	04/14/13 12:52	04/16/13 19:46	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.053	0.0089	1	04/14/13 12:52	04/16/13 19:46	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.21	0.046	1	04/14/13 12:52	04/16/13 19:46	60-29-7	
Ethylbenzene	ND mg/kg		0.053	0.0044	1	04/14/13 12:52	04/16/13 19:46	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.26	0.023	1	04/14/13 12:52	04/16/13 19:46	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.053	0.0063	1	04/14/13 12:52	04/16/13 19:46	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.053	0.0062	1	04/14/13 12:52	04/16/13 19:46	99-87-6	
Methylene Chloride	ND mg/kg		0.21	0.11	1	04/14/13 12:52	04/16/13 19:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.26	0.13	1	04/14/13 12:52	04/16/13 19:46	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.053	0.0095	1	04/14/13 12:52	04/16/13 19:46	1634-04-4	
Naphthalene	ND mg/kg		0.21	0.0060	1	04/14/13 12:52	04/16/13 19:46	91-20-3	
n-Propylbenzene	ND mg/kg		0.053	0.0053	1	04/14/13 12:52	04/16/13 19:46	103-65-1	
Styrene	ND mg/kg		0.053	0.026	1	04/14/13 12:52	04/16/13 19:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.053	0.026	1	04/14/13 12:52	04/16/13 19:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.053	0.0097	1	04/14/13 12:52	04/16/13 19:46	79-34-5	
Tetrachloroethene	ND mg/kg		0.053	0.0075	1	04/14/13 12:52	04/16/13 19:46	127-18-4	
Tetrahydrofuran	ND mg/kg		2.1	0.15	1	04/14/13 12:52	04/16/13 19:46	109-99-9	
Toluene	ND mg/kg		0.053	0.0079	1	04/14/13 12:52	04/16/13 19:46	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.053	0.0079	1	04/14/13 12:52	04/16/13 19:46	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.053	0.0099	1	04/14/13 12:52	04/16/13 19:46	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.053	0.0072	1	04/14/13 12:52	04/16/13 19:46	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.053	0.013	1	04/14/13 12:52	04/16/13 19:46	79-00-5	
Trichloroethene	ND mg/kg		0.053	0.0091	1	04/14/13 12:52	04/16/13 19:46	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.21	0.018	1	04/14/13 12:52	04/16/13 19:46	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.21	0.014	1	04/14/13 12:52	04/16/13 19:46	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.053	0.021	1	04/14/13 12:52	04/16/13 19:46	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.053	0.0063	1	04/14/13 12:52	04/16/13 19:46	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.053	0.0062	1	04/14/13 12:52	04/16/13 19:46	108-67-8	
Vinyl chloride	ND mg/kg		0.021	0.0078	1	04/14/13 12:52	04/16/13 19:46	75-01-4	
Xylene (Total)	ND mg/kg		0.16	0.017	1	04/14/13 12:52	04/16/13 19:46	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	95 %	57-150			1	04/14/13 12:52	04/16/13 19:46	17060-07-0	
Toluene-d8 (S)	94 %	70-136			1	04/14/13 12:52	04/16/13 19:46	2037-26-5	
4-Bromofluorobenzene (S)	100 %	67-138			1	04/14/13 12:52	04/16/13 19:46	460-00-4	

ANALYTICAL RESULTS

Project: MCES 123840
Pace Project No.: 10225292

Sample: GP-3-9W	Lab ID: 10225292007	Collected: 04/10/13 12:15	Received: 04/12/13 15:40	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	9230 ug/L		538	64.5	5	04/17/13 07:30	04/19/13 10:32		L2
Surrogates									
n-Triacontane (S)	85 %		50-150		5	04/17/13 07:30	04/19/13 10:32		P2
WIGRO GCV	Analytical Method: WI MOD GRO								
Gasoline Range Organics	2160 ug/L		500		5		04/19/13 05:29		
Surrogates									
a,a,a-Trifluorotoluene (S)	100 %		80-125		5		04/19/13 05:29	98-08-8	D3
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND ug/L		20.0	5.5	1	04/20/13 07:52	04/24/13 11:19	7440-38-2	
Barium	151 ug/L		10.0	0.13	1	04/20/13 07:52	04/24/13 11:19	7440-39-3	
Cadmium	ND ug/L		3.0	0.29	1	04/20/13 07:52	04/24/13 11:19	7440-43-9	
Chromium	ND ug/L		10.0	0.72	1	04/20/13 07:52	04/24/13 11:19	7440-47-3	
Lead	ND ug/L		10.0	1.2	1	04/20/13 07:52	04/24/13 11:19	7439-92-1	
Selenium	ND ug/L		20.0	6.1	1	04/20/13 07:52	04/24/13 11:19	7782-49-2	
Silver	ND ug/L		10.0	0.96	1	04/20/13 07:52	04/24/13 11:19	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND ug/L		0.20	0.030	1	04/19/13 09:56	04/22/13 13:34	7439-97-6	
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3520								
Phenol	ND ug/L		10.4	1.1	1	04/16/13 21:55	04/19/13 11:43	108-95-2	
bis(2-Chloroethyl) ether	ND ug/L		10.4	1.2	1	04/16/13 21:55	04/19/13 11:43	111-44-4	
2-Chlorophenol	ND ug/L		10.4	1.2	1	04/16/13 21:55	04/19/13 11:43	95-57-8	
1,3-Dichlorobenzene	ND ug/L		10.4	1.3	1	04/16/13 21:55	04/19/13 11:43	541-73-1	
1,4-Dichlorobenzene	ND ug/L		10.4	1.1	1	04/16/13 21:55	04/19/13 11:43	106-46-7	
Benzyl alcohol	ND ug/L		10.4	1.2	1	04/16/13 21:55	04/19/13 11:43	100-51-6	
1,2-Dichlorobenzene	ND ug/L		10.4	1.2	1	04/16/13 21:55	04/19/13 11:43	95-50-1	
2-Methylphenol(o-Cresol)	ND ug/L		10.4	1.0	1	04/16/13 21:55	04/19/13 11:43	95-48-7	
bis(2-Chloroisopropyl) ether	ND ug/L		10.4	1.2	1	04/16/13 21:55	04/19/13 11:43	108-60-1	
3&4-Methylphenol	ND ug/L		20.8	1.0	1	04/16/13 21:55	04/19/13 11:43		
N-Nitroso-di-n-propylamine	ND ug/L		10.4	1.1	1	04/16/13 21:55	04/19/13 11:43	621-64-7	
Hexachloroethane	ND ug/L		10.4	1.4	1	04/16/13 21:55	04/19/13 11:43	67-72-1	
Nitrobenzene	ND ug/L		10.4	1.1	1	04/16/13 21:55	04/19/13 11:43	98-95-3	
Isophorone	ND ug/L		10.4	0.88	1	04/16/13 21:55	04/19/13 11:43	78-59-1	
2-Nitrophenol	ND ug/L		10.4	0.99	1	04/16/13 21:55	04/19/13 11:43	88-75-5	
2,4-Dimethylphenol	208 ug/L		52.1	17.4	5	04/16/13 21:55	04/19/13 13:02	105-67-9	
Benzoic acid	ND ug/L		52.1	26.0	1	04/16/13 21:55	04/19/13 11:43	65-85-0	CL
bis(2-Chloroethoxy)methane	ND ug/L		10.4	0.94	1	04/16/13 21:55	04/19/13 11:43	111-91-1	
2,4-Dichlorophenol	ND ug/L		10.4	0.90	1	04/16/13 21:55	04/19/13 11:43	120-83-2	
1,2,4-Trichlorobenzene	ND ug/L		10.4	1.1	1	04/16/13 21:55	04/19/13 11:43	120-82-1	
Naphthalene	3320 ug/L		521	53.6	50	04/16/13 21:55	04/19/13 14:54	91-20-3	
4-Chloroaniline	ND ug/L		10.4	1.7	1	04/16/13 21:55	04/19/13 11:43	106-47-8	CL,L2,SS
Hexachloro-1,3-butadiene	ND ug/L		10.4	1.3	1	04/16/13 21:55	04/19/13 11:43	87-68-3	

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ANALYTICAL RESULTS

Project: MCES 123840
Pace Project No.: 10225292

Sample: GP-3-9W	Lab ID: 10225292007	Collected: 04/10/13 12:15	Received: 04/12/13 15:40	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3520								
4-Chloro-3-methylphenol	ND ug/L	10.4	0.83	1	04/16/13 21:55	04/19/13 11:43	59-50-7		
2-Methylnaphthalene	220 ug/L	52.1	4.6	5	04/16/13 21:55	04/19/13 13:02	91-57-6		
2,4,6-Trichlorophenol	ND ug/L	10.4	0.89	1	04/16/13 21:55	04/19/13 11:43	88-06-2		
2,4,5-Trichlorophenol	ND ug/L	10.4	0.83	1	04/16/13 21:55	04/19/13 11:43	95-95-4		
2-Chloronaphthalene	ND ug/L	10.4	0.81	1	04/16/13 21:55	04/19/13 11:43	91-58-7		
2-Nitroaniline	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	88-74-4		
Dimethylphthalate	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	131-11-3		
Acenaphthylene	ND ug/L	10.4	0.83	1	04/16/13 21:55	04/19/13 11:43	208-96-8		
2,6-Dinitrotoluene	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	606-20-2		
3-Nitroaniline	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	99-09-2	L2	
Acenaphthene	128 ug/L	10.4	0.88	1	04/16/13 21:55	04/19/13 11:43	83-32-9		
2,4-Dinitrophenol	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	51-28-5		
4-Nitrophenol	ND ug/L	10.4	2.1	1	04/16/13 21:55	04/19/13 11:43	100-02-7		
Dibenzofuran	56.4 ug/L	10.4	0.59	1	04/16/13 21:55	04/19/13 11:43	132-64-9		
2,4-Dinitrotoluene	ND ug/L	10.4	0.83	1	04/16/13 21:55	04/19/13 11:43	121-14-2		
Diethylphthalate	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	84-66-2		
4-Chlorophenylphenyl ether	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	7005-72-3		
Fluorene	67.4 ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	86-73-7		
4-Nitroaniline	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	100-01-6		
4,6-Dinitro-2-methylphenol	ND ug/L	10.4	4.3	1	04/16/13 21:55	04/19/13 11:43	534-52-1		
N-Nitrosodiphenylamine	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	86-30-6		
4-Bromophenylphenyl ether	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	101-55-3		
Hexachlorobenzene	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	118-74-1		
Pentachlorophenol	ND ug/L	20.8	10.4	1	04/16/13 21:55	04/19/13 11:43	87-86-5		
Phenanthrene	68.6 ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	85-01-8		
Anthracene	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	120-12-7		
Di-n-butylphthalate	ND ug/L	10.4	1.2	1	04/16/13 21:55	04/19/13 11:43	84-74-2		
Fluoranthene	10.6 ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	206-44-0		
Pyrene	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	129-00-0		
Butylbenzylphthalate	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	85-68-7		
3,3'-Dichlorobenzidine	ND ug/L	10.4	1.2	1	04/16/13 21:55	04/19/13 11:43	91-94-1	L2	
Benzo(a)anthracene	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	56-55-3		
Chrysene	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	218-01-9		
bis(2-Ethylhexyl)phthalate	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	117-81-7		
Di-n-octylphthalate	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	117-84-0		
Benzo(b)fluoranthene	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	205-99-2		
Benzo(k)fluoranthene	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	207-08-9		
Benzo(a)pyrene	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	50-32-8		
Indeno(1,2,3-cd)pyrene	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	193-39-5		
Dibenz(a,h)anthracene	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	53-70-3		
Benzo(g,h,i)perylene	ND ug/L	10.4	5.2	1	04/16/13 21:55	04/19/13 11:43	191-24-2		
Surrogates									
Nitrobenzene-d5 (S)	99 %	60-125		1	04/16/13 21:55	04/19/13 11:43	4165-60-0		
2-Fluorobiphenyl (S)	75 %	60-125		1	04/16/13 21:55	04/19/13 11:43	321-60-8		
Terphenyl-d14 (S)	59 %	56-125		1	04/16/13 21:55	04/19/13 11:43	1718-51-0		
Phenol-d6 (S)	77 %	56-125		1	04/16/13 21:55	04/19/13 11:43	13127-88-3		

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-3-9W	Lab ID: 10225292007	Collected: 04/10/13 12:15	Received: 04/12/13 15:40	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3520							
Surrogates									
2-Fluorophenol (S)	74 %		53-125		1	04/16/13 21:55	04/19/13 11:43	367-12-4	
2,4,6-Tribromophenol (S)	85 %		55-125		1	04/16/13 21:55	04/19/13 11:43	118-79-6	
8260 VOC		Analytical Method: EPA 8260							
Acetone	ND ug/L		20.0	10.0	1		04/19/13 06:21	67-64-1	
Allyl chloride	ND ug/L		4.0	1.8	1		04/19/13 06:21	107-05-1	
Benzene	76.2 ug/L		1.0	0.062	1		04/19/13 06:21	71-43-2	
Bromobenzene	ND ug/L		1.0	0.086	1		04/19/13 06:21	108-86-1	
Bromochloromethane	ND ug/L		1.0	0.32	1		04/19/13 06:21	74-97-5	
Bromodichloromethane	ND ug/L		1.0	0.11	1		04/19/13 06:21	75-27-4	
Bromoform	ND ug/L		4.0	0.068	1		04/19/13 06:21	75-25-2	
Bromomethane	ND ug/L		10.0	0.36	1		04/19/13 06:21	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	2.5	1		04/19/13 06:21	78-93-3	
n-Butylbenzene	ND ug/L		1.0	0.15	1		04/19/13 06:21	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	0.10	1		04/19/13 06:21	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	0.10	1		04/19/13 06:21	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	0.16	1		04/19/13 06:21	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.10	1		04/19/13 06:21	108-90-7	
Chloroethane	ND ug/L		1.0	0.22	1		04/19/13 06:21	75-00-3	
Chloroform	ND ug/L		1.0	0.14	1		04/19/13 06:21	67-66-3	
Chloromethane	ND ug/L		4.0	0.41	1		04/19/13 06:21	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.50	1		04/19/13 06:21	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.068	1		04/19/13 06:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	0.62	1		04/19/13 06:21	96-12-8	
Dibromochloromethane	ND ug/L		1.0	0.10	1		04/19/13 06:21	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	0.091	1		04/19/13 06:21	106-93-4	
Dibromomethane	ND ug/L		4.0	0.21	1		04/19/13 06:21	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.36	1		04/19/13 06:21	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.11	1		04/19/13 06:21	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.064	1		04/19/13 06:21	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.20	1		04/19/13 06:21	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.11	1		04/19/13 06:21	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.37	1		04/19/13 06:21	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.19	1		04/19/13 06:21	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.085	1		04/19/13 06:21	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.15	1		04/19/13 06:21	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	0.11	1		04/19/13 06:21	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	0.27	1		04/19/13 06:21	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.081	1		04/19/13 06:21	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	0.15	1		04/19/13 06:21	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.35	1		04/19/13 06:21	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	0.090	1		04/19/13 06:21	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	0.37	1		04/19/13 06:21	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	2.0	1		04/19/13 06:21	60-29-7	
Ethylbenzene	29.3 ug/L		1.0	0.081	1		04/19/13 06:21	100-41-4	

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ANALYTICAL RESULTS

Project: MCES 123840
Pace Project No.: 10225292

Sample: GP-3-9W	Lab ID: 10225292007	Collected: 04/10/13 12:15	Received: 04/12/13 15:40	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260								
Hexachloro-1,3-butadiene	ND ug/L		5.0	0.19	1		04/19/13 06:21	87-68-3	
Isopropylbenzene (Cumene)	2.6 ug/L		1.0	0.076	1		04/19/13 06:21	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	0.086	1		04/19/13 06:21	99-87-6	
Methylene Chloride	ND ug/L		4.0	2.0	1		04/19/13 06:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	2.5	1		04/19/13 06:21	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	0.088	1		04/19/13 06:21	1634-04-4	
Naphthalene	6380 ug/L		200	3.4	50		04/24/13 10:31	91-20-3	
n-Propylbenzene	ND ug/L		1.0	0.078	1		04/19/13 06:21	103-65-1	
Styrene	ND ug/L		1.0	0.060	1		04/19/13 06:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	0.36	1		04/19/13 06:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.097	1		04/19/13 06:21	79-34-5	
Tetrachloroethene	ND ug/L		1.0	0.13	1		04/19/13 06:21	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	0.97	1		04/19/13 06:21	109-99-9	
Toluene	2.5 ug/L		1.0	0.077	1		04/19/13 06:21	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.13	1		04/19/13 06:21	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.25	1		04/19/13 06:21	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	0.19	1		04/19/13 06:21	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.15	1		04/19/13 06:21	79-00-5	
Trichloroethene	ND ug/L		1.0	0.083	1		04/19/13 06:21	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.13	1		04/19/13 06:21	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	0.33	1		04/19/13 06:21	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	0.18	1		04/19/13 06:21	76-13-1	
1,2,4-Trimethylbenzene	22.6 ug/L		1.0	0.071	1		04/19/13 06:21	95-63-6	
1,3,5-Trimethylbenzene	2.2 ug/L		1.0	0.087	1		04/19/13 06:21	108-67-8	
Vinyl chloride	ND ug/L		0.40	0.16	1		04/19/13 06:21	75-01-4	
Xylene (Total)	74.3 ug/L		3.0	0.22	1		04/19/13 06:21	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	95 %		75-125		1		04/19/13 06:21	17060-07-0	
Toluene-d8 (S)	98 %		75-125		1		04/19/13 06:21	2037-26-5	
4-Bromofluorobenzene (S)	99 %		75-125		1		04/19/13 06:21	460-00-4	

ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-4-2 Lab ID: 10225292008 Collected: 04/10/13 13:25 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	21.8 mg/kg		8.5	0.93	1	04/17/13 09:12	04/21/13 15:21		T6
Surrogates									
n-Triacontane (S)	79 %		50-150		1	04/17/13 09:12	04/21/13 15:21		
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Gasoline Range Organics	ND mg/kg		5.3		1	04/15/13 17:39	04/16/13 20:45		
Surrogates									
a,a,a-Trifluorotoluene (S)	102 %		80-125		1	04/15/13 17:39	04/16/13 20:45	98-08-8	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	7.4 mg/kg		0.91	0.15	1	04/19/13 07:37	04/23/13 12:10	7440-38-2	
Barium	49.4 mg/kg		0.45	0.026	1	04/19/13 07:37	04/23/13 12:10	7440-39-3	
Cadmium	ND mg/kg		0.14	0.068	1	04/19/13 07:37	04/23/13 12:10	7440-43-9	
Chromium	9.3 mg/kg		0.45	0.069	1	04/19/13 07:37	04/23/13 12:10	7440-47-3	
Lead	4.3 mg/kg		0.91	0.065	1	04/19/13 07:37	04/23/13 12:10	7439-92-1	
Selenium	ND mg/kg		0.68	0.22	1	04/19/13 07:37	04/23/13 12:10	7782-49-2	
Silver	ND mg/kg		0.45	0.031	1	04/19/13 07:37	04/24/13 09:43	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	ND mg/kg		0.020	0.0061	1	04/19/13 07:56	04/22/13 13:06	7439-97-6	
Dry Weight Analytical Method: ASTM D2974									
Percent Moisture	5.1 %		0.10	0.10	1		04/15/13 00:00		
8270 MSSV Analytical Method: EPA 8270 Preparation Method: EPA 3550									
Acenaphthene	ND mg/kg		0.70	0.082	2	04/16/13 14:01	04/22/13 16:43	83-32-9	
Acenaphthylene	ND mg/kg		0.70	0.080	2	04/16/13 14:01	04/22/13 16:43	208-96-8	
Anthracene	0.81 mg/kg		0.70	0.089	2	04/16/13 14:01	04/22/13 16:43	120-12-7	
Benzidine	ND mg/kg		3.4	1.7	2	04/16/13 14:01	04/22/13 16:43	92-87-5	
Benzo(a)anthracene	3.6 mg/kg		0.70	0.098	2	04/16/13 14:01	04/22/13 16:43	56-55-3	
Benzo(a)pyrene	5.0 mg/kg		0.70	0.099	2	04/16/13 14:01	04/22/13 16:43	50-32-8	
Benzo(b)fluoranthene	7.0 mg/kg		0.70	0.099	2	04/16/13 14:01	04/22/13 16:43	205-99-2	
Benzo(g,h,i)perylene	4.3 mg/kg		0.70	0.11	2	04/16/13 14:01	04/22/13 16:43	191-24-2	
Benzo(k)fluoranthene	2.6 mg/kg		0.70	0.097	2	04/16/13 14:01	04/22/13 16:43	207-08-9	
Benzoic acid	ND mg/kg		3.6	0.96	2	04/16/13 14:01	04/22/13 16:43	65-85-0	
Benzyl alcohol	ND mg/kg		0.70	0.10	2	04/16/13 14:01	04/22/13 16:43	100-51-6	
4-Bromophenylphenyl ether	ND mg/kg		0.70	0.11	2	04/16/13 14:01	04/22/13 16:43	101-55-3	
Butylbenzylphthalate	ND mg/kg		0.70	0.095	2	04/16/13 14:01	04/22/13 16:43	85-68-7	
4-Chloro-3-methylphenol	ND mg/kg		0.70	0.082	2	04/16/13 14:01	04/22/13 16:43	59-50-7	
4-Chloroaniline	ND mg/kg		0.70	0.15	2	04/16/13 14:01	04/22/13 16:43	106-47-8	CL
bis(2-Chloroethoxy)methane	ND mg/kg		0.70	0.12	2	04/16/13 14:01	04/22/13 16:43	111-91-1	2M
bis(2-Chloroethyl) ether	ND mg/kg		0.70	0.14	2	04/16/13 14:01	04/22/13 16:43	111-44-4	
bis(2-Chloroisopropyl) ether	ND mg/kg		0.70	0.17	2	04/16/13 14:01	04/22/13 16:43	108-60-1	
2-Chloronaphthalene	ND mg/kg		0.70	0.084	2	04/16/13 14:01	04/22/13 16:43	91-58-7	
2-Chlorophenol	ND mg/kg		0.70	0.15	2	04/16/13 14:01	04/22/13 16:43	95-57-8	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-4-2 Lab ID: 10225292008 Collected: 04/10/13 13:25 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3550							
4-Chlorophenylphenyl ether	ND mg/kg	0.70	0.094	2	04/16/13 14:01	04/22/13 16:43	7005-72-3		
Chrysene	4.2 mg/kg	0.70	0.099	2	04/16/13 14:01	04/22/13 16:43	218-01-9		
Dibenz(a,h)anthracene	1.0 mg/kg	0.70	0.11	2	04/16/13 14:01	04/22/13 16:43	53-70-3		
Dibenzofuran	ND mg/kg	0.70	0.085	2	04/16/13 14:01	04/22/13 16:43	132-64-9		
1,2-Dichlorobenzene	ND mg/kg	0.70	0.15	2	04/16/13 14:01	04/22/13 16:43	95-50-1		
1,3-Dichlorobenzene	ND mg/kg	0.70	0.16	2	04/16/13 14:01	04/22/13 16:43	541-73-1		
1,4-Dichlorobenzene	ND mg/kg	0.70	0.15	2	04/16/13 14:01	04/22/13 16:43	106-46-7		
3,3'-Dichlorobenzidine	ND mg/kg	0.70	0.35	2	04/16/13 14:01	04/22/13 16:43	91-94-1		
2,4-Dichlorophenol	ND mg/kg	0.70	0.10	2	04/16/13 14:01	04/22/13 16:43	120-83-2		
Diethylphthalate	ND mg/kg	0.70	0.091	2	04/16/13 14:01	04/22/13 16:43	84-66-2		
2,4-Dimethylphenol	ND mg/kg	0.70	0.11	2	04/16/13 14:01	04/22/13 16:43	105-67-9		
Dimethylphthalate	ND mg/kg	0.70	0.097	2	04/16/13 14:01	04/22/13 16:43	131-11-3		
Di-n-butylphthalate	ND mg/kg	0.70	0.072	2	04/16/13 14:01	04/22/13 16:43	84-74-2		
4,6-Dinitro-2-methylphenol	ND mg/kg	3.6	0.59	2	04/16/13 14:01	04/22/13 16:43	534-52-1		
2,4-Dinitrophenol	ND mg/kg	0.70	0.10	2	04/16/13 14:01	04/22/13 16:43	51-28-5		
2,4-Dinitrotoluene	ND mg/kg	0.70	0.12	2	04/16/13 14:01	04/22/13 16:43	121-14-2		
2,6-Dinitrotoluene	ND mg/kg	0.70	0.097	2	04/16/13 14:01	04/22/13 16:43	606-20-2		
Di-n-octylphthalate	ND mg/kg	0.70	0.10	2	04/16/13 14:01	04/22/13 16:43	117-84-0		
bis(2-Ethylhexyl)phthalate	ND mg/kg	0.70	0.16	2	04/16/13 14:01	04/22/13 16:43	117-81-7		
Fluoranthene	4.7 mg/kg	0.70	0.085	2	04/16/13 14:01	04/22/13 16:43	206-44-0		
Fluorene	ND mg/kg	0.70	0.089	2	04/16/13 14:01	04/22/13 16:43	86-73-7		
Hexachloro-1,3-butadiene	ND mg/kg	0.70	0.17	2	04/16/13 14:01	04/22/13 16:43	87-68-3		
Hexachlorobenzene	ND mg/kg	0.70	0.098	2	04/16/13 14:01	04/22/13 16:43	118-74-1		
Hexachlorocyclopentadiene	ND mg/kg	0.70	0.35	2	04/16/13 14:01	04/22/13 16:43	77-47-4		
Hexachloroethane	ND mg/kg	0.70	0.16	2	04/16/13 14:01	04/22/13 16:43	67-72-1		
Indeno(1,2,3-cd)pyrene	3.4 mg/kg	0.70	0.10	2	04/16/13 14:01	04/22/13 16:43	193-39-5		
Isophorone	ND mg/kg	0.70	0.084	2	04/16/13 14:01	04/22/13 16:43	78-59-1		
2-Methylnaphthalene	ND mg/kg	0.70	0.10	2	04/16/13 14:01	04/22/13 16:43	91-57-6		
2-Methylphenol(o-Cresol)	ND mg/kg	0.70	0.11	2	04/16/13 14:01	04/22/13 16:43	95-48-7		
3&4-Methylphenol	ND mg/kg	1.4	0.093	2	04/16/13 14:01	04/22/13 16:43			
Naphthalene	ND mg/kg	0.70	0.14	2	04/16/13 14:01	04/22/13 16:43	91-20-3		
2-Nitroaniline	ND mg/kg	0.70	0.096	2	04/16/13 14:01	04/22/13 16:43	88-74-4		
3-Nitroaniline	ND mg/kg	0.70	0.14	2	04/16/13 14:01	04/22/13 16:43	99-09-2		
4-Nitroaniline	ND mg/kg	0.70	0.10	2	04/16/13 14:01	04/22/13 16:43	100-01-6		
Nitrobenzene	ND mg/kg	0.70	0.14	2	04/16/13 14:01	04/22/13 16:43	98-95-3		
2-Nitrophenol	ND mg/kg	0.70	0.12	2	04/16/13 14:01	04/22/13 16:43	88-75-5		
4-Nitrophenol	ND mg/kg	0.70	0.13	2	04/16/13 14:01	04/22/13 16:43	100-02-7		
N-Nitroso-di-n-propylamine	ND mg/kg	0.70	0.11	2	04/16/13 14:01	04/22/13 16:43	621-64-7		
N-Nitrosodiphenylamine	ND mg/kg	0.70	0.10	2	04/16/13 14:01	04/22/13 16:43	86-30-6		
Pentachlorophenol	ND mg/kg	1.4	0.71	2	04/16/13 14:01	04/22/13 16:43	87-86-5		
Phenanthrene	1.2 mg/kg	0.70	0.093	2	04/16/13 14:01	04/22/13 16:43	85-01-8		
Phenol	ND mg/kg	0.70	0.13	2	04/16/13 14:01	04/22/13 16:43	108-95-2		
Pyrene	4.9 mg/kg	0.70	0.097	2	04/16/13 14:01	04/22/13 16:43	129-00-0		
1,2,4-Trichlorobenzene	ND mg/kg	0.70	0.14	2	04/16/13 14:01	04/22/13 16:43	120-82-1		
2,4,5-Trichlorophenol	ND mg/kg	0.70	0.12	2	04/16/13 14:01	04/22/13 16:43	95-95-4		

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-4-2 Lab ID: 10225292008 Collected: 04/10/13 13:25 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
2,4,6-Trichlorophenol	ND mg/kg		0.70	0.10	2	04/16/13 14:01	04/22/13 16:43	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	65 %		30-127		2	04/16/13 14:01	04/22/13 16:43	4165-60-0	D4
2-Fluorobiphenyl (S)	77 %		42-125		2	04/16/13 14:01	04/22/13 16:43	321-60-8	
Terphenyl-d14 (S)	75 %		51-125		2	04/16/13 14:01	04/22/13 16:43	1718-51-0	
Phenol-d6 (S)	72 %		30-125		2	04/16/13 14:01	04/22/13 16:43	13127-88-3	
2-Fluorophenol (S)	71 %		30-127		2	04/16/13 14:01	04/22/13 16:43	367-12-4	
2,4,6-Tribromophenol (S)	81 %		46-125		2	04/16/13 14:01	04/22/13 16:43	118-79-6	
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Acetone	ND mg/kg		1.1	0.54	1	04/14/13 12:52	04/15/13 00:14	67-64-1	
Allyl chloride	ND mg/kg		0.21	0.044	1	04/14/13 12:52	04/15/13 00:14	107-05-1	
Benzene	ND mg/kg		0.021	0.0050	1	04/14/13 12:52	04/15/13 00:14	71-43-2	
Bromobenzene	ND mg/kg		0.054	0.0060	1	04/14/13 12:52	04/15/13 00:14	108-86-1	
Bromochloromethane	ND mg/kg		0.054	0.018	1	04/14/13 12:52	04/15/13 00:14	74-97-5	
Bromodichloromethane	ND mg/kg		0.054	0.0085	1	04/14/13 12:52	04/15/13 00:14	75-27-4	
Bromoform	ND mg/kg		0.21	0.010	1	04/14/13 12:52	04/15/13 00:14	75-25-2	
Bromomethane	ND mg/kg		0.54	0.036	1	04/14/13 12:52	04/15/13 00:14	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.27	0.13	1	04/14/13 12:52	04/15/13 00:14	78-93-3	
n-Butylbenzene	ND mg/kg		0.054	0.0070	1	04/14/13 12:52	04/15/13 00:14	104-51-8	
sec-Butylbenzene	ND mg/kg		0.054	0.0045	1	04/14/13 12:52	04/15/13 00:14	135-98-8	
tert-Butylbenzene	ND mg/kg		0.054	0.0055	1	04/14/13 12:52	04/15/13 00:14	98-06-6	
Carbon tetrachloride	ND mg/kg		0.054	0.010	1	04/14/13 12:52	04/15/13 00:14	56-23-5	
Chlorobenzene	ND mg/kg		0.054	0.0061	1	04/14/13 12:52	04/15/13 00:14	108-90-7	
Chloroethane	ND mg/kg		0.54	0.044	1	04/14/13 12:52	04/15/13 00:14	75-00-3	
Chloroform	ND mg/kg		0.054	0.0052	1	04/14/13 12:52	04/15/13 00:14	67-66-3	
Chloromethane	ND mg/kg		0.21	0.051	1	04/14/13 12:52	04/15/13 00:14	74-87-3	
2-Chlorotoluene	ND mg/kg		0.054	0.0072	1	04/14/13 12:52	04/15/13 00:14	95-49-8	
4-Chlorotoluene	ND mg/kg		0.054	0.0068	1	04/14/13 12:52	04/15/13 00:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.21	0.048	1	04/14/13 12:52	04/15/13 00:14	96-12-8	
Dibromochloromethane	ND mg/kg		0.054	0.0045	1	04/14/13 12:52	04/15/13 00:14	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.054	0.0090	1	04/14/13 12:52	04/15/13 00:14	106-93-4	
Dibromomethane	ND mg/kg		0.054	0.013	1	04/14/13 12:52	04/15/13 00:14	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.054	0.0062	1	04/14/13 12:52	04/15/13 00:14	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.054	0.0043	1	04/14/13 12:52	04/15/13 00:14	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.054	0.0060	1	04/14/13 12:52	04/15/13 00:14	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.054	0.013	1	04/14/13 12:52	04/15/13 00:14	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.054	0.027	1	04/14/13 12:52	04/15/13 00:14	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.054	0.0070	1	04/14/13 12:52	04/15/13 00:14	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.054	0.0078	1	04/14/13 12:52	04/15/13 00:14	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.054	0.0092	1	04/14/13 12:52	04/15/13 00:14	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.054	0.010	1	04/14/13 12:52	04/15/13 00:14	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.54	0.034	1	04/14/13 12:52	04/15/13 00:14	75-43-4	
1,2-Dichloropropane	ND mg/kg		0.054	0.027	1	04/14/13 12:52	04/15/13 00:14	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.054	0.0076	1	04/14/13 12:52	04/15/13 00:14	142-28-9	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-4-2 Lab ID: 10225292008 Collected: 04/10/13 13:25 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
2,2-Dichloropropane	ND mg/kg		0.21	0.0076	1	04/14/13 12:52	04/15/13 00:14	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.054	0.0074	1	04/14/13 12:52	04/15/13 00:14	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.054	0.0083	1	04/14/13 12:52	04/15/13 00:14	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.054	0.0090	1	04/14/13 12:52	04/15/13 00:14	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.21	0.047	1	04/14/13 12:52	04/15/13 00:14	60-29-7	
Ethylbenzene	ND mg/kg		0.054	0.0045	1	04/14/13 12:52	04/15/13 00:14	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.27	0.023	1	04/14/13 12:52	04/15/13 00:14	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.054	0.0065	1	04/14/13 12:52	04/15/13 00:14	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.054	0.0063	1	04/14/13 12:52	04/15/13 00:14	99-87-6	
Methylene Chloride	ND mg/kg		0.21	0.11	1	04/14/13 12:52	04/15/13 00:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.27	0.13	1	04/14/13 12:52	04/15/13 00:14	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.054	0.0096	1	04/14/13 12:52	04/15/13 00:14	1634-04-4	
Naphthalene	ND mg/kg		0.21	0.0061	1	04/14/13 12:52	04/15/13 00:14	91-20-3	
n-Propylbenzene	ND mg/kg		0.054	0.0054	1	04/14/13 12:52	04/15/13 00:14	103-65-1	
Styrene	ND mg/kg		0.054	0.027	1	04/14/13 12:52	04/15/13 00:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.054	0.027	1	04/14/13 12:52	04/15/13 00:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.054	0.0099	1	04/14/13 12:52	04/15/13 00:14	79-34-5	
Tetrachloroethene	ND mg/kg		0.054	0.0076	1	04/14/13 12:52	04/15/13 00:14	127-18-4	
Tetrahydrofuran	ND mg/kg		2.1	0.15	1	04/14/13 12:52	04/15/13 00:14	109-99-9	
Toluene	ND mg/kg		0.054	0.0081	1	04/14/13 12:52	04/15/13 00:14	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.054	0.0080	1	04/14/13 12:52	04/15/13 00:14	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.054	0.010	1	04/14/13 12:52	04/15/13 00:14	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.054	0.0074	1	04/14/13 12:52	04/15/13 00:14	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.054	0.013	1	04/14/13 12:52	04/15/13 00:14	79-00-5	
Trichloroethene	ND mg/kg		0.054	0.0093	1	04/14/13 12:52	04/15/13 00:14	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.21	0.019	1	04/14/13 12:52	04/15/13 00:14	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.21	0.014	1	04/14/13 12:52	04/15/13 00:14	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.054	0.022	1	04/14/13 12:52	04/15/13 00:14	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.054	0.0064	1	04/14/13 12:52	04/15/13 00:14	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.054	0.0064	1	04/14/13 12:52	04/15/13 00:14	108-67-8	
Vinyl chloride	ND mg/kg		0.021	0.0080	1	04/14/13 12:52	04/15/13 00:14	75-01-4	
Xylene (Total)	ND mg/kg		0.16	0.018	1	04/14/13 12:52	04/15/13 00:14	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	93 %	57-150			1	04/14/13 12:52	04/15/13 00:14	17060-07-0	
Toluene-d8 (S)	96 %	70-136			1	04/14/13 12:52	04/15/13 00:14	2037-26-5	
4-Bromofluorobenzene (S)	97 %	67-138			1	04/14/13 12:52	04/15/13 00:14	460-00-4	

ANALYTICAL RESULTS

Project: MCES 123840
Pace Project No.: 10225292

Sample: GP-4-18W	Lab ID: 10225292009	Collected: 04/10/13 13:35	Received: 04/12/13 15:40	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	173 ug/L		109	13.0	1	04/17/13 07:30	04/19/13 08:25		L2
Surrogates									
n-Triacontane (S)	76 %		50-150		1	04/17/13 07:30	04/19/13 08:25		P2
WIGRO GCV	Analytical Method: WI MOD GRO								
Gasoline Range Organics	ND ug/L		100		1		04/19/13 00:55		
Surrogates									
a,a,a-Trifluorotoluene (S)	102 %		80-125		1		04/19/13 00:55	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND ug/L		20.0	5.5	1	04/20/13 07:52	04/24/13 11:45	7440-38-2	
Barium	578 ug/L		10.0	0.13	1	04/20/13 07:52	04/24/13 11:45	7440-39-3	
Cadmium	ND ug/L		3.0	0.29	1	04/20/13 07:52	04/24/13 11:45	7440-43-9	
Chromium	ND ug/L		10.0	0.72	1	04/20/13 07:52	04/24/13 11:45	7440-47-3	
Lead	ND ug/L		10.0	1.2	1	04/20/13 07:52	04/24/13 11:45	7439-92-1	
Selenium	ND ug/L		20.0	6.1	1	04/20/13 07:52	04/24/13 11:45	7782-49-2	
Silver	ND ug/L		10.0	0.96	1	04/20/13 07:52	04/24/13 11:45	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND ug/L		0.20	0.030	1	04/19/13 09:56	04/22/13 13:36	7439-97-6	
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3520								
Phenol	ND ug/L		10.3	1.1	1	04/16/13 21:55	04/19/13 12:10	108-95-2	
bis(2-Chloroethyl) ether	ND ug/L		10.3	1.1	1	04/16/13 21:55	04/19/13 12:10	111-44-4	
2-Chlorophenol	ND ug/L		10.3	1.2	1	04/16/13 21:55	04/19/13 12:10	95-57-8	
1,3-Dichlorobenzene	ND ug/L		10.3	1.3	1	04/16/13 21:55	04/19/13 12:10	541-73-1	
1,4-Dichlorobenzene	ND ug/L		10.3	1.1	1	04/16/13 21:55	04/19/13 12:10	106-46-7	
Benzyl alcohol	ND ug/L		10.3	1.2	1	04/16/13 21:55	04/19/13 12:10	100-51-6	
1,2-Dichlorobenzene	ND ug/L		10.3	1.2	1	04/16/13 21:55	04/19/13 12:10	95-50-1	
2-Methylphenol(o-Cresol)	ND ug/L		10.3	1.0	1	04/16/13 21:55	04/19/13 12:10	95-48-7	
bis(2-Chloroisopropyl) ether	ND ug/L		10.3	1.2	1	04/16/13 21:55	04/19/13 12:10	108-60-1	
3&4-Methylphenol	ND ug/L		20.6	1.0	1	04/16/13 21:55	04/19/13 12:10		
N-Nitroso-di-n-propylamine	ND ug/L		10.3	1.1	1	04/16/13 21:55	04/19/13 12:10	621-64-7	
Hexachloroethane	ND ug/L		10.3	1.4	1	04/16/13 21:55	04/19/13 12:10	67-72-1	
Nitrobenzene	ND ug/L		10.3	1.1	1	04/16/13 21:55	04/19/13 12:10	98-95-3	
Isophorone	ND ug/L		10.3	0.87	1	04/16/13 21:55	04/19/13 12:10	78-59-1	
2-Nitrophenol	ND ug/L		10.3	0.98	1	04/16/13 21:55	04/19/13 12:10	88-75-5	
2,4-Dimethylphenol	ND ug/L		10.3	3.4	1	04/16/13 21:55	04/19/13 12:10	105-67-9	
Benzoic acid	ND ug/L		51.5	25.8	1	04/16/13 21:55	04/19/13 12:10	65-85-0	CL
bis(2-Chloroethoxy)methane	ND ug/L		10.3	0.93	1	04/16/13 21:55	04/19/13 12:10	111-91-1	
2,4-Dichlorophenol	ND ug/L		10.3	0.89	1	04/16/13 21:55	04/19/13 12:10	120-83-2	
1,2,4-Trichlorobenzene	ND ug/L		10.3	1.1	1	04/16/13 21:55	04/19/13 12:10	120-82-1	
Naphthalene	ND ug/L		10.3	1.1	1	04/16/13 21:55	04/19/13 12:10	91-20-3	
4-Chloroaniline	ND ug/L		10.3	1.6	1	04/16/13 21:55	04/19/13 12:10	106-47-8	CL,L2, SS
Hexachloro-1,3-butadiene	ND ug/L		10.3	1.3	1	04/16/13 21:55	04/19/13 12:10	87-68-3	

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ANALYTICAL RESULTS

Project: MCES 123840
Pace Project No.: 10225292

Sample: GP-4-18W	Lab ID: 10225292009	Collected: 04/10/13 13:35	Received: 04/12/13 15:40	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3520								
4-Chloro-3-methylphenol	ND ug/L		10.3	0.82	1	04/16/13 21:55	04/19/13 12:10	59-50-7	
2-Methylnaphthalene	ND ug/L		10.3	0.91	1	04/16/13 21:55	04/19/13 12:10	91-57-6	
2,4,6-Trichlorophenol	ND ug/L		10.3	0.88	1	04/16/13 21:55	04/19/13 12:10	88-06-2	
2,4,5-Trichlorophenol	ND ug/L		10.3	0.82	1	04/16/13 21:55	04/19/13 12:10	95-95-4	
2-Chloronaphthalene	ND ug/L		10.3	0.80	1	04/16/13 21:55	04/19/13 12:10	91-58-7	
2-Nitroaniline	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	88-74-4	
Dimethylphthalate	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	131-11-3	
Acenaphthylene	ND ug/L		10.3	0.82	1	04/16/13 21:55	04/19/13 12:10	208-96-8	
2,6-Dinitrotoluene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	606-20-2	
3-Nitroaniline	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	99-09-2	L2
Acenaphthene	ND ug/L		10.3	0.87	1	04/16/13 21:55	04/19/13 12:10	83-32-9	
2,4-Dinitrophenol	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	51-28-5	
4-Nitrophenol	ND ug/L		10.3	2.1	1	04/16/13 21:55	04/19/13 12:10	100-02-7	
Dibenzofuran	ND ug/L		10.3	0.59	1	04/16/13 21:55	04/19/13 12:10	132-64-9	
2,4-Dinitrotoluene	ND ug/L		10.3	0.82	1	04/16/13 21:55	04/19/13 12:10	121-14-2	
Diethylphthalate	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	84-66-2	
4-Chlorophenylphenyl ether	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	7005-72-3	
Fluorene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	86-73-7	
4-Nitroaniline	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	100-01-6	
4,6-Dinitro-2-methylphenol	ND ug/L		10.3	4.2	1	04/16/13 21:55	04/19/13 12:10	534-52-1	
N-Nitrosodiphenylamine	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	86-30-6	
4-Bromophenylphenyl ether	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	101-55-3	
Hexachlorobenzene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	118-74-1	
Pentachlorophenol	ND ug/L		20.6	10.3	1	04/16/13 21:55	04/19/13 12:10	87-86-5	
Phenanthrene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	85-01-8	
Anthracene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	120-12-7	
Di-n-butylphthalate	ND ug/L		10.3	1.2	1	04/16/13 21:55	04/19/13 12:10	84-74-2	
Fluoranthene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	206-44-0	
Pyrene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	129-00-0	
Butylbenzylphthalate	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	85-68-7	
3,3'-Dichlorobenzidine	ND ug/L		10.3	1.2	1	04/16/13 21:55	04/19/13 12:10	91-94-1	L2
Benzo(a)anthracene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	56-55-3	
Chrysene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	218-01-9	
bis(2-Ethylhexyl)phthalate	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	117-81-7	
Di-n-octylphthalate	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	117-84-0	
Benzo(b)fluoranthene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	205-99-2	
Benzo(k)fluoranthene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	207-08-9	
Benzo(a)pyrene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	50-32-8	
Indeno(1,2,3-cd)pyrene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	193-39-5	
Dibenz(a,h)anthracene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	53-70-3	
Benzo(g,h,i)perylene	ND ug/L		10.3	5.2	1	04/16/13 21:55	04/19/13 12:10	191-24-2	
Surrogates									
Nitrobenzene-d5 (S)	67 %	60-125		1	04/16/13 21:55	04/19/13 12:10	4165-60-0	P2	
2-Fluorobiphenyl (S)	70 %	60-125		1	04/16/13 21:55	04/19/13 12:10	321-60-8		
Terphenyl-d14 (S)	80 %	56-125		1	04/16/13 21:55	04/19/13 12:10	1718-51-0		
Phenol-d6 (S)	47 %	56-125		1	04/16/13 21:55	04/19/13 12:10	13127-88-3	S1	

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ANALYTICAL RESULTS

Project: MCES 123840
Pace Project No.: 10225292

Sample: GP-4-18W	Lab ID: 10225292009	Collected: 04/10/13 13:35	Received: 04/12/13 15:40	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3520								
Surrogates									
2-Fluorophenol (S)	44 %		53-125		1	04/16/13 21:55	04/19/13 12:10	367-12-4	S1
2,4,6-Tribromophenol (S)	50 %		55-125		1	04/16/13 21:55	04/19/13 12:10	118-79-6	S1
8260 VOC	Analytical Method: EPA 8260								
Acetone	ND ug/L		20.0	10.0	1		04/19/13 05:57	67-64-1	
Allyl chloride	ND ug/L		4.0	1.8	1		04/19/13 05:57	107-05-1	
Benzene	ND ug/L		1.0	0.062	1		04/19/13 05:57	71-43-2	
Bromobenzene	ND ug/L		1.0	0.086	1		04/19/13 05:57	108-86-1	
Bromochloromethane	ND ug/L		1.0	0.32	1		04/19/13 05:57	74-97-5	
Bromodichloromethane	ND ug/L		1.0	0.11	1		04/19/13 05:57	75-27-4	
Bromoform	ND ug/L		4.0	0.068	1		04/19/13 05:57	75-25-2	
Bromomethane	ND ug/L		10.0	0.36	1		04/19/13 05:57	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	2.5	1		04/19/13 05:57	78-93-3	
n-Butylbenzene	ND ug/L		1.0	0.15	1		04/19/13 05:57	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	0.10	1		04/19/13 05:57	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	0.10	1		04/19/13 05:57	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	0.16	1		04/19/13 05:57	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.10	1		04/19/13 05:57	108-90-7	
Chloroethane	ND ug/L		1.0	0.22	1		04/19/13 05:57	75-00-3	
Chloroform	ND ug/L		1.0	0.14	1		04/19/13 05:57	67-66-3	
Chloromethane	ND ug/L		4.0	0.41	1		04/19/13 05:57	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.50	1		04/19/13 05:57	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.068	1		04/19/13 05:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	0.62	1		04/19/13 05:57	96-12-8	
Dibromochloromethane	ND ug/L		1.0	0.10	1		04/19/13 05:57	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	0.091	1		04/19/13 05:57	106-93-4	
Dibromomethane	ND ug/L		4.0	0.21	1		04/19/13 05:57	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.36	1		04/19/13 05:57	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.11	1		04/19/13 05:57	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.064	1		04/19/13 05:57	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.20	1		04/19/13 05:57	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.11	1		04/19/13 05:57	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.37	1		04/19/13 05:57	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.19	1		04/19/13 05:57	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.085	1		04/19/13 05:57	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.15	1		04/19/13 05:57	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	0.11	1		04/19/13 05:57	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	0.27	1		04/19/13 05:57	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.081	1		04/19/13 05:57	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	0.15	1		04/19/13 05:57	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.35	1		04/19/13 05:57	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	0.090	1		04/19/13 05:57	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	0.37	1		04/19/13 05:57	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	2.0	1		04/19/13 05:57	60-29-7	
Ethylbenzene	ND ug/L		1.0	0.081	1		04/19/13 05:57	100-41-4	

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ANALYTICAL RESULTS

Project: MCES 123840
Pace Project No.: 10225292

Sample: GP-4-18W	Lab ID: 10225292009	Collected: 04/10/13 13:35	Received: 04/12/13 15:40	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
Hexachloro-1,3-butadiene	ND ug/L		5.0	0.19	1		04/19/13 05:57	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	0.076	1		04/19/13 05:57	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	0.086	1		04/19/13 05:57	99-87-6	
Methylene Chloride	ND ug/L		4.0	2.0	1		04/19/13 05:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	2.5	1		04/19/13 05:57	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	0.088	1		04/19/13 05:57	1634-04-4	
Naphthalene	ND ug/L		4.0	0.068	1		04/19/13 05:57	91-20-3	
n-Propylbenzene	ND ug/L		1.0	0.078	1		04/19/13 05:57	103-65-1	
Styrene	ND ug/L		1.0	0.060	1		04/19/13 05:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	0.36	1		04/19/13 05:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.097	1		04/19/13 05:57	79-34-5	
Tetrachloroethene	ND ug/L		1.0	0.13	1		04/19/13 05:57	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	0.97	1		04/19/13 05:57	109-99-9	
Toluene	ND ug/L		1.0	0.077	1		04/19/13 05:57	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.13	1		04/19/13 05:57	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.25	1		04/19/13 05:57	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	0.19	1		04/19/13 05:57	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.15	1		04/19/13 05:57	79-00-5	
Trichloroethene	ND ug/L		1.0	0.083	1		04/19/13 05:57	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.13	1		04/19/13 05:57	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	0.33	1		04/19/13 05:57	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	0.18	1		04/19/13 05:57	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	0.071	1		04/19/13 05:57	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	0.087	1		04/19/13 05:57	108-67-8	
Vinyl chloride	ND ug/L		0.40	0.16	1		04/19/13 05:57	75-01-4	
Xylene (Total)	ND ug/L		3.0	0.22	1		04/19/13 05:57	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	96 %		75-125		1		04/19/13 05:57	17060-07-0	
Toluene-d8 (S)	99 %		75-125		1		04/19/13 05:57	2037-26-5	
4-Bromofluorobenzene (S)	101 %		75-125		1		04/19/13 05:57	460-00-4	

ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-5-2 Lab ID: 10225292010 Collected: 04/10/13 14:30 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	19.1	mg/kg	9.4	1.0	1	04/17/13 09:12	04/21/13 15:28		T6
Surrogates									
n-Triacontane (S)	88 %		50-150		1	04/17/13 09:12	04/21/13 15:28		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	ND	mg/kg	5.7		1	04/15/13 17:39	04/16/13 21:04		
Surrogates									
a,a,a-Trifluorotoluene (S)	102 %		80-125		1	04/15/13 17:39	04/16/13 21:04	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	6.2	mg/kg	1.0	0.17	1	04/19/13 07:37	04/23/13 12:16	7440-38-2	
Barium	52.2	mg/kg	0.51	0.030	1	04/19/13 07:37	04/23/13 12:16	7440-39-3	
Cadmium	0.32	mg/kg	0.15	0.076	1	04/19/13 07:37	04/23/13 12:16	7440-43-9	
Chromium	8.0	mg/kg	0.51	0.077	1	04/19/13 07:37	04/23/13 12:16	7440-47-3	
Lead	13.1	mg/kg	1.0	0.073	1	04/19/13 07:37	04/23/13 12:16	7439-92-1	
Selenium	1.0	mg/kg	0.76	0.25	1	04/19/13 07:37	04/23/13 12:16	7782-49-2	
Silver	ND	mg/kg	0.51	0.035	1	04/19/13 07:37	04/24/13 09:57	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	0.026	mg/kg	0.022	0.0065	1	04/19/13 07:56	04/22/13 13:08	7439-97-6	
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	13.2 %		0.10	0.10	1		04/15/13 00:00		
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
Acenaphthene	ND	mg/kg	0.38	0.045	1	04/16/13 14:01	04/19/13 17:14	83-32-9	
Acenaphthylene	ND	mg/kg	0.38	0.044	1	04/16/13 14:01	04/19/13 17:14	208-96-8	
Anthracene	ND	mg/kg	0.38	0.049	1	04/16/13 14:01	04/19/13 17:14	120-12-7	
Benzidine	ND	mg/kg	1.8	0.92	1	04/16/13 14:01	04/19/13 17:14	92-87-5	
Benzo(a)anthracene	0.40	mg/kg	0.38	0.054	1	04/16/13 14:01	04/19/13 17:14	56-55-3	
Benzo(a)pyrene	0.48	mg/kg	0.38	0.054	1	04/16/13 14:01	04/19/13 17:14	50-32-8	
Benzo(b)fluoranthene	0.74	mg/kg	0.38	0.054	1	04/16/13 14:01	04/19/13 17:14	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.38	0.058	1	04/16/13 14:01	04/19/13 17:14	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.38	0.053	1	04/16/13 14:01	04/19/13 17:14	207-08-9	
Benzoic acid	ND	mg/kg	2.0	0.53	1	04/16/13 14:01	04/19/13 17:14	65-85-0	
Benzyl alcohol	ND	mg/kg	0.38	0.056	1	04/16/13 14:01	04/19/13 17:14	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.38	0.058	1	04/16/13 14:01	04/19/13 17:14	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.38	0.052	1	04/16/13 14:01	04/19/13 17:14	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.38	0.045	1	04/16/13 14:01	04/19/13 17:14	59-50-7	
4-Chloroaniline	ND	mg/kg	0.38	0.081	1	04/16/13 14:01	04/19/13 17:14	106-47-8	CL
bis(2-Chloroethoxy)methane	ND	mg/kg	0.38	0.065	1	04/16/13 14:01	04/19/13 17:14	111-91-1	2M
bis(2-Chloroethyl) ether	ND	mg/kg	0.38	0.078	1	04/16/13 14:01	04/19/13 17:14	111-44-4	
bis(2-Chloroisopropyl) ether	ND	mg/kg	0.38	0.091	1	04/16/13 14:01	04/19/13 17:14	108-60-1	
2-Chloronaphthalene	ND	mg/kg	0.38	0.046	1	04/16/13 14:01	04/19/13 17:14	91-58-7	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-5-2 Lab ID: 10225292010 Collected: 04/10/13 14:30 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3550							
2-Chlorophenol	ND mg/kg	0.38	0.084	1	04/16/13 14:01	04/19/13 17:14	95-57-8		
4-Chlorophenylphenyl ether	ND mg/kg	0.38	0.051	1	04/16/13 14:01	04/19/13 17:14	7005-72-3		
Chrysene	0.54 mg/kg	0.38	0.054	1	04/16/13 14:01	04/19/13 17:14	218-01-9		
Dibenz(a,h)anthracene	ND mg/kg	0.38	0.059	1	04/16/13 14:01	04/19/13 17:14	53-70-3		
Dibenzofuran	ND mg/kg	0.38	0.046	1	04/16/13 14:01	04/19/13 17:14	132-64-9		
1,2-Dichlorobenzene	ND mg/kg	0.38	0.082	1	04/16/13 14:01	04/19/13 17:14	95-50-1		
1,3-Dichlorobenzene	ND mg/kg	0.38	0.087	1	04/16/13 14:01	04/19/13 17:14	541-73-1		
1,4-Dichlorobenzene	ND mg/kg	0.38	0.081	1	04/16/13 14:01	04/19/13 17:14	106-46-7		
3,3'-Dichlorobenzidine	ND mg/kg	0.38	0.19	1	04/16/13 14:01	04/19/13 17:14	91-94-1		
2,4-Dichlorophenol	ND mg/kg	0.38	0.057	1	04/16/13 14:01	04/19/13 17:14	120-83-2		
Diethylphthalate	ND mg/kg	0.38	0.050	1	04/16/13 14:01	04/19/13 17:14	84-66-2		
2,4-Dimethylphenol	ND mg/kg	0.38	0.062	1	04/16/13 14:01	04/19/13 17:14	105-67-9		
Dimethylphthalate	ND mg/kg	0.38	0.053	1	04/16/13 14:01	04/19/13 17:14	131-11-3		
Di-n-butylphthalate	ND mg/kg	0.38	0.039	1	04/16/13 14:01	04/19/13 17:14	84-74-2		
4,6-Dinitro-2-methylphenol	ND mg/kg	2.0	0.32	1	04/16/13 14:01	04/19/13 17:14	534-52-1		
2,4-Dinitrophenol	ND mg/kg	0.38	0.055	1	04/16/13 14:01	04/19/13 17:14	51-28-5		
2,4-Dinitrotoluene	ND mg/kg	0.38	0.063	1	04/16/13 14:01	04/19/13 17:14	121-14-2		
2,6-Dinitrotoluene	ND mg/kg	0.38	0.053	1	04/16/13 14:01	04/19/13 17:14	606-20-2		
Di-n-octylphthalate	ND mg/kg	0.38	0.056	1	04/16/13 14:01	04/19/13 17:14	117-84-0		
bis(2-Ethylhexyl)phthalate	ND mg/kg	0.38	0.089	1	04/16/13 14:01	04/19/13 17:14	117-81-7		
Fluoranthene	0.74 mg/kg	0.38	0.046	1	04/16/13 14:01	04/19/13 17:14	206-44-0		
Fluorene	ND mg/kg	0.38	0.049	1	04/16/13 14:01	04/19/13 17:14	86-73-7		
Hexachloro-1,3-butadiene	ND mg/kg	0.38	0.094	1	04/16/13 14:01	04/19/13 17:14	87-68-3		
Hexachlorobenzene	ND mg/kg	0.38	0.053	1	04/16/13 14:01	04/19/13 17:14	118-74-1		
Hexachlorocyclopentadiene	ND mg/kg	0.38	0.19	1	04/16/13 14:01	04/19/13 17:14	77-47-4		
Hexachloroethane	ND mg/kg	0.38	0.090	1	04/16/13 14:01	04/19/13 17:14	67-72-1		
Indeno(1,2,3-cd)pyrene	ND mg/kg	0.38	0.056	1	04/16/13 14:01	04/19/13 17:14	193-39-5		
Isophorone	ND mg/kg	0.38	0.046	1	04/16/13 14:01	04/19/13 17:14	78-59-1		
2-Methylnaphthalene	ND mg/kg	0.38	0.056	1	04/16/13 14:01	04/19/13 17:14	91-57-6		
2-Methylphenol(o-Cresol)	ND mg/kg	0.38	0.058	1	04/16/13 14:01	04/19/13 17:14	95-48-7		
3&4-Methylphenol	ND mg/kg	0.76	0.051	1	04/16/13 14:01	04/19/13 17:14			
Naphthalene	ND mg/kg	0.38	0.074	1	04/16/13 14:01	04/19/13 17:14	91-20-3		
2-Nitroaniline	ND mg/kg	0.38	0.053	1	04/16/13 14:01	04/19/13 17:14	88-74-4		
3-Nitroaniline	ND mg/kg	0.38	0.075	1	04/16/13 14:01	04/19/13 17:14	99-09-2		
4-Nitroaniline	ND mg/kg	0.38	0.056	1	04/16/13 14:01	04/19/13 17:14	100-01-6		
Nitrobenzene	ND mg/kg	0.38	0.076	1	04/16/13 14:01	04/19/13 17:14	98-95-3		
2-Nitrophenol	ND mg/kg	0.38	0.063	1	04/16/13 14:01	04/19/13 17:14	88-75-5		
4-Nitrophenol	ND mg/kg	0.38	0.072	1	04/16/13 14:01	04/19/13 17:14	100-02-7		
N-Nitroso-di-n-propylamine	ND mg/kg	0.38	0.059	1	04/16/13 14:01	04/19/13 17:14	621-64-7		
N-Nitrosodiphenylamine	ND mg/kg	0.38	0.055	1	04/16/13 14:01	04/19/13 17:14	86-30-6		
Pentachlorophenol	ND mg/kg	0.77	0.39	1	04/16/13 14:01	04/19/13 17:14	87-86-5		
Phenanthrene	ND mg/kg	0.38	0.051	1	04/16/13 14:01	04/19/13 17:14	85-01-8		
Phenol	ND mg/kg	0.38	0.069	1	04/16/13 14:01	04/19/13 17:14	108-95-2		
Pyrene	0.64 mg/kg	0.38	0.053	1	04/16/13 14:01	04/19/13 17:14	129-00-0		
1,2,4-Trichlorobenzene	ND mg/kg	0.38	0.079	1	04/16/13 14:01	04/19/13 17:14	120-82-1		

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-5-2 Lab ID: 10225292010 Collected: 04/10/13 14:30 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
2,4,5-Trichlorophenol	ND mg/kg		0.38	0.065	1	04/16/13 14:01	04/19/13 17:14	95-95-4	
2,4,6-Trichlorophenol	ND mg/kg		0.38	0.056	1	04/16/13 14:01	04/19/13 17:14	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	46 %		30-127		1	04/16/13 14:01	04/19/13 17:14	4165-60-0	
2-Fluorobiphenyl (S)	68 %		42-125		1	04/16/13 14:01	04/19/13 17:14	321-60-8	
Terphenyl-d14 (S)	73 %		51-125		1	04/16/13 14:01	04/19/13 17:14	1718-51-0	
Phenol-d6 (S)	61 %		30-125		1	04/16/13 14:01	04/19/13 17:14	13127-88-3	
2-Fluorophenol (S)	49 %		30-127		1	04/16/13 14:01	04/19/13 17:14	367-12-4	
2,4,6-Tribromophenol (S)	83 %		46-125		1	04/16/13 14:01	04/19/13 17:14	118-79-6	
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Acetone	ND mg/kg		1.2	0.60	1	04/16/13 10:11	04/16/13 16:44	67-64-1	
Allyl chloride	ND mg/kg		0.24	0.049	1	04/16/13 10:11	04/16/13 16:44	107-05-1	
Benzene	ND mg/kg		0.024	0.0056	1	04/16/13 10:11	04/16/13 16:44	71-43-2	
Bromobenzene	ND mg/kg		0.060	0.0067	1	04/16/13 10:11	04/16/13 16:44	108-86-1	
Bromochloromethane	ND mg/kg		0.060	0.020	1	04/16/13 10:11	04/16/13 16:44	74-97-5	
Bromodichloromethane	ND mg/kg		0.060	0.0094	1	04/16/13 10:11	04/16/13 16:44	75-27-4	
Bromoform	ND mg/kg		0.24	0.011	1	04/16/13 10:11	04/16/13 16:44	75-25-2	
Bromomethane	ND mg/kg		0.60	0.040	1	04/16/13 10:11	04/16/13 16:44	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.30	0.15	1	04/16/13 10:11	04/16/13 16:44	78-93-3	
n-Butylbenzene	ND mg/kg		0.060	0.0078	1	04/16/13 10:11	04/16/13 16:44	104-51-8	
sec-Butylbenzene	ND mg/kg		0.060	0.0050	1	04/16/13 10:11	04/16/13 16:44	135-98-8	
tert-Butylbenzene	ND mg/kg		0.060	0.0062	1	04/16/13 10:11	04/16/13 16:44	98-06-6	
Carbon tetrachloride	ND mg/kg		0.060	0.011	1	04/16/13 10:11	04/16/13 16:44	56-23-5	
Chlorobenzene	ND mg/kg		0.060	0.0068	1	04/16/13 10:11	04/16/13 16:44	108-90-7	
Chloroethane	ND mg/kg		0.60	0.049	1	04/16/13 10:11	04/16/13 16:44	75-00-3	
Chloroform	ND mg/kg		0.060	0.0058	1	04/16/13 10:11	04/16/13 16:44	67-66-3	
Chloromethane	ND mg/kg		0.24	0.056	1	04/16/13 10:11	04/16/13 16:44	74-87-3	
2-Chlorotoluene	ND mg/kg		0.060	0.0080	1	04/16/13 10:11	04/16/13 16:44	95-49-8	
4-Chlorotoluene	ND mg/kg		0.060	0.0076	1	04/16/13 10:11	04/16/13 16:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.24	0.053	1	04/16/13 10:11	04/16/13 16:44	96-12-8	
Dibromochloromethane	ND mg/kg		0.060	0.0050	1	04/16/13 10:11	04/16/13 16:44	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.060	0.010	1	04/16/13 10:11	04/16/13 16:44	106-93-4	
Dibromomethane	ND mg/kg		0.060	0.015	1	04/16/13 10:11	04/16/13 16:44	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.060	0.0069	1	04/16/13 10:11	04/16/13 16:44	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.060	0.0048	1	04/16/13 10:11	04/16/13 16:44	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.060	0.0067	1	04/16/13 10:11	04/16/13 16:44	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.060	0.015	1	04/16/13 10:11	04/16/13 16:44	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.060	0.030	1	04/16/13 10:11	04/16/13 16:44	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.060	0.0079	1	04/16/13 10:11	04/16/13 16:44	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.060	0.0087	1	04/16/13 10:11	04/16/13 16:44	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.060	0.010	1	04/16/13 10:11	04/16/13 16:44	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.060	0.011	1	04/16/13 10:11	04/16/13 16:44	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.60	0.038	1	04/16/13 10:11	04/16/13 16:44	75-43-4	
1,2-Dichloropropane	ND mg/kg		0.060	0.030	1	04/16/13 10:11	04/16/13 16:44	78-87-5	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-5-2 Lab ID: 10225292010 Collected: 04/10/13 14:30 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,3-Dichloropropane	ND mg/kg		0.060	0.0084	1	04/16/13 10:11	04/16/13 16:44	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.24	0.0085	1	04/16/13 10:11	04/16/13 16:44	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.060	0.0082	1	04/16/13 10:11	04/16/13 16:44	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.060	0.0093	1	04/16/13 10:11	04/16/13 16:44	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.060	0.010	1	04/16/13 10:11	04/16/13 16:44	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.24	0.052	1	04/16/13 10:11	04/16/13 16:44	60-29-7	
Ethylbenzene	ND mg/kg		0.060	0.0050	1	04/16/13 10:11	04/16/13 16:44	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.30	0.026	1	04/16/13 10:11	04/16/13 16:44	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.060	0.0072	1	04/16/13 10:11	04/16/13 16:44	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.060	0.0071	1	04/16/13 10:11	04/16/13 16:44	99-87-6	
Methylene Chloride	ND mg/kg		0.24	0.12	1	04/16/13 10:11	04/16/13 16:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.30	0.15	1	04/16/13 10:11	04/16/13 16:44	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.060	0.011	1	04/16/13 10:11	04/16/13 16:44	1634-04-4	
Naphthalene	ND mg/kg		0.24	0.0068	1	04/16/13 10:11	04/16/13 16:44	91-20-3	
n-Propylbenzene	ND mg/kg		0.060	0.0060	1	04/16/13 10:11	04/16/13 16:44	103-65-1	
Styrene	ND mg/kg		0.060	0.030	1	04/16/13 10:11	04/16/13 16:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.060	0.030	1	04/16/13 10:11	04/16/13 16:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.060	0.011	1	04/16/13 10:11	04/16/13 16:44	79-34-5	
Tetrachloroethene	ND mg/kg		0.060	0.0085	1	04/16/13 10:11	04/16/13 16:44	127-18-4	
Tetrahydrofuran	ND mg/kg		2.4	0.17	1	04/16/13 10:11	04/16/13 16:44	109-99-9	
Toluene	ND mg/kg		0.060	0.0090	1	04/16/13 10:11	04/16/13 16:44	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.060	0.0090	1	04/16/13 10:11	04/16/13 16:44	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.060	0.011	1	04/16/13 10:11	04/16/13 16:44	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.060	0.0082	1	04/16/13 10:11	04/16/13 16:44	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.060	0.015	1	04/16/13 10:11	04/16/13 16:44	79-00-5	
Trichloroethene	ND mg/kg		0.060	0.010	1	04/16/13 10:11	04/16/13 16:44	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.24	0.021	1	04/16/13 10:11	04/16/13 16:44	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.24	0.016	1	04/16/13 10:11	04/16/13 16:44	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.060	0.024	1	04/16/13 10:11	04/16/13 16:44	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.060	0.0071	1	04/16/13 10:11	04/16/13 16:44	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.060	0.0071	1	04/16/13 10:11	04/16/13 16:44	108-67-8	
Vinyl chloride	ND mg/kg		0.024	0.0089	1	04/16/13 10:11	04/16/13 16:44	75-01-4	
Xylene (Total)	ND mg/kg		0.18	0.020	1	04/16/13 10:11	04/16/13 16:44	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	95 %		57-150		1	04/16/13 10:11	04/16/13 16:44	17060-07-0	
Toluene-d8 (S)	95 %		70-136		1	04/16/13 10:11	04/16/13 16:44	2037-26-5	
4-Bromofluorobenzene (S)	97 %		67-138		1	04/16/13 10:11	04/16/13 16:44	460-00-4	

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ANALYTICAL RESULTS

Project: MCES 123840
Pace Project No.: 10225292

Sample: GP-5-14W	Lab ID: 10225292012	Collected: 04/10/13 14:50	Received: 04/12/13 15:40	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	ND ug/L		110	13.2	1	04/17/13 07:30	04/19/13 08:39		L2
Surrogates									
n-Triacontane (S)	82 %		50-150		1	04/17/13 07:30	04/19/13 08:39		P2,P4
WIGRO GCV	Analytical Method: WI MOD GRO								
Gasoline Range Organics	ND ug/L		100		1		04/19/13 01:14		
Surrogates									
a,a,a-Trifluorotoluene (S)	102 %		80-125		1		04/19/13 01:14	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND ug/L		20.0	5.5	1	04/20/13 07:52	04/24/13 11:52	7440-38-2	
Barium	387 ug/L		10.0	0.13	1	04/20/13 07:52	04/24/13 11:52	7440-39-3	
Cadmium	ND ug/L		3.0	0.29	1	04/20/13 07:52	04/24/13 11:52	7440-43-9	
Chromium	ND ug/L		10.0	0.72	1	04/20/13 07:52	04/24/13 11:52	7440-47-3	
Lead	ND ug/L		10.0	1.2	1	04/20/13 07:52	04/24/13 11:52	7439-92-1	
Selenium	ND ug/L		20.0	6.1	1	04/20/13 07:52	04/24/13 11:52	7782-49-2	
Silver	ND ug/L		10.0	0.96	1	04/20/13 07:52	04/24/13 11:52	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND ug/L		0.20	0.030	1	04/19/13 09:56	04/22/13 13:39	7439-97-6	
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3520								
Phenol	ND ug/L		10.6	1.1	1	04/16/13 21:55	04/19/13 12:36	108-95-2	
bis(2-Chloroethyl) ether	ND ug/L		10.6	1.2	1	04/16/13 21:55	04/19/13 12:36	111-44-4	
2-Chlorophenol	ND ug/L		10.6	1.2	1	04/16/13 21:55	04/19/13 12:36	95-57-8	
1,3-Dichlorobenzene	ND ug/L		10.6	1.3	1	04/16/13 21:55	04/19/13 12:36	541-73-1	
1,4-Dichlorobenzene	ND ug/L		10.6	1.1	1	04/16/13 21:55	04/19/13 12:36	106-46-7	
Benzyl alcohol	ND ug/L		10.6	1.3	1	04/16/13 21:55	04/19/13 12:36	100-51-6	
1,2-Dichlorobenzene	ND ug/L		10.6	1.3	1	04/16/13 21:55	04/19/13 12:36	95-50-1	
2-Methylphenol(o-Cresol)	ND ug/L		10.6	1.1	1	04/16/13 21:55	04/19/13 12:36	95-48-7	
bis(2-Chloroisopropyl) ether	ND ug/L		10.6	1.2	1	04/16/13 21:55	04/19/13 12:36	108-60-1	
3&4-Methylphenol	ND ug/L		21.3	1.1	1	04/16/13 21:55	04/19/13 12:36		
N-Nitroso-di-n-propylamine	ND ug/L		10.6	1.1	1	04/16/13 21:55	04/19/13 12:36	621-64-7	
Hexachloroethane	ND ug/L		10.6	1.5	1	04/16/13 21:55	04/19/13 12:36	67-72-1	
Nitrobenzene	ND ug/L		10.6	1.1	1	04/16/13 21:55	04/19/13 12:36	98-95-3	
Isophorone	ND ug/L		10.6	0.89	1	04/16/13 21:55	04/19/13 12:36	78-59-1	
2-Nitrophenol	ND ug/L		10.6	1.0	1	04/16/13 21:55	04/19/13 12:36	88-75-5	
2,4-Dimethylphenol	ND ug/L		10.6	3.6	1	04/16/13 21:55	04/19/13 12:36	105-67-9	
Benzoic acid	ND ug/L		53.2	26.6	1	04/16/13 21:55	04/19/13 12:36	65-85-0	CL
bis(2-Chloroethoxy)methane	ND ug/L		10.6	0.96	1	04/16/13 21:55	04/19/13 12:36	111-91-1	
2,4-Dichlorophenol	ND ug/L		10.6	0.91	1	04/16/13 21:55	04/19/13 12:36	120-83-2	
1,2,4-Trichlorobenzene	ND ug/L		10.6	1.1	1	04/16/13 21:55	04/19/13 12:36	120-82-1	
Naphthalene	ND ug/L		10.6	1.1	1	04/16/13 21:55	04/19/13 12:36	91-20-3	
4-Chloroaniline	ND ug/L		10.6	1.7	1	04/16/13 21:55	04/19/13 12:36	106-47-8	CL,L2,SS
Hexachloro-1,3-butadiene	ND ug/L		10.6	1.4	1	04/16/13 21:55	04/19/13 12:36	87-68-3	

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ANALYTICAL RESULTS

Project: MCES 123840
Pace Project No.: 10225292

Sample: GP-5-14W	Lab ID: 10225292012	Collected: 04/10/13 14:50	Received: 04/12/13 15:40	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3520								
4-Chloro-3-methylphenol	ND ug/L		10.6	0.85	1	04/16/13 21:55	04/19/13 12:36	59-50-7	
2-Methylnaphthalene	ND ug/L		10.6	0.94	1	04/16/13 21:55	04/19/13 12:36	91-57-6	
2,4,6-Trichlorophenol	ND ug/L		10.6	0.90	1	04/16/13 21:55	04/19/13 12:36	88-06-2	
2,4,5-Trichlorophenol	ND ug/L		10.6	0.85	1	04/16/13 21:55	04/19/13 12:36	95-95-4	
2-Chloronaphthalene	ND ug/L		10.6	0.83	1	04/16/13 21:55	04/19/13 12:36	91-58-7	
2-Nitroaniline	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	88-74-4	
Dimethylphthalate	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	131-11-3	
Acenaphthylene	ND ug/L		10.6	0.85	1	04/16/13 21:55	04/19/13 12:36	208-96-8	
2,6-Dinitrotoluene	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	606-20-2	
3-Nitroaniline	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	99-09-2	L2
Acenaphthene	ND ug/L		10.6	0.89	1	04/16/13 21:55	04/19/13 12:36	83-32-9	
2,4-Dinitrophenol	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	51-28-5	
4-Nitrophenol	ND ug/L		10.6	2.1	1	04/16/13 21:55	04/19/13 12:36	100-02-7	
Dibenzofuran	ND ug/L		10.6	0.61	1	04/16/13 21:55	04/19/13 12:36	132-64-9	
2,4-Dinitrotoluene	ND ug/L		10.6	0.85	1	04/16/13 21:55	04/19/13 12:36	121-14-2	
Diethylphthalate	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	84-66-2	
4-Chlorophenylphenyl ether	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	7005-72-3	
Fluorene	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	86-73-7	
4-Nitroaniline	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	100-01-6	
4,6-Dinitro-2-methylphenol	ND ug/L		10.6	4.4	1	04/16/13 21:55	04/19/13 12:36	534-52-1	
N-Nitrosodiphenylamine	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	86-30-6	
4-Bromophenylphenyl ether	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	101-55-3	
Hexachlorobenzene	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	118-74-1	
Pentachlorophenol	ND ug/L		21.3	10.6	1	04/16/13 21:55	04/19/13 12:36	87-86-5	
Phenanthrene	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	85-01-8	
Anthracene	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	120-12-7	
Di-n-butylphthalate	ND ug/L		10.6	1.2	1	04/16/13 21:55	04/19/13 12:36	84-74-2	
Fluoranthene	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	206-44-0	
Pyrene	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	129-00-0	
Butylbenzylphthalate	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	85-68-7	
3,3'-Dichlorobenzidine	ND ug/L		10.6	1.3	1	04/16/13 21:55	04/19/13 12:36	91-94-1	L2
Benzo(a)anthracene	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	56-55-3	
Chrysene	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	218-01-9	
bis(2-Ethylhexyl)phthalate	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	117-81-7	
Di-n-octylphthalate	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	117-84-0	
Benzo(b)fluoranthene	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	205-99-2	
Benzo(k)fluoranthene	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	207-08-9	
Benzo(a)pyrene	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	50-32-8	
Indeno(1,2,3-cd)pyrene	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	193-39-5	
Dibenz(a,h)anthracene	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	53-70-3	
Benzo(g,h,i)perylene	ND ug/L		10.6	5.3	1	04/16/13 21:55	04/19/13 12:36	191-24-2	
Surrogates									
Nitrobenzene-d5 (S)	62 %		60-125		1	04/16/13 21:55	04/19/13 12:36	4165-60-0	
2-Fluorobiphenyl (S)	67 %		60-125		1	04/16/13 21:55	04/19/13 12:36	321-60-8	
Terphenyl-d14 (S)	69 %		56-125		1	04/16/13 21:55	04/19/13 12:36	1718-51-0	
Phenol-d6 (S)	65 %		56-125		1	04/16/13 21:55	04/19/13 12:36	13127-88-3	

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ANALYTICAL RESULTS

Project: MCES 123840
Pace Project No.: 10225292

Sample: GP-5-14W	Lab ID: 10225292012	Collected: 04/10/13 14:50	Received: 04/12/13 15:40	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3520							
Surrogates									
2-Fluorophenol (S)	60 %		53-125		1	04/16/13 21:55	04/19/13 12:36	367-12-4	
2,4,6-Tribromophenol (S)	78 %		55-125		1	04/16/13 21:55	04/19/13 12:36	118-79-6	
8260 VOC		Analytical Method: EPA 8260							
Acetone	ND ug/L		20.0	10.0	1		04/19/13 05:33	67-64-1	
Allyl chloride	ND ug/L		4.0	1.8	1		04/19/13 05:33	107-05-1	
Benzene	ND ug/L		1.0	0.062	1		04/19/13 05:33	71-43-2	
Bromobenzene	ND ug/L		1.0	0.086	1		04/19/13 05:33	108-86-1	
Bromochloromethane	ND ug/L		1.0	0.32	1		04/19/13 05:33	74-97-5	
Bromodichloromethane	ND ug/L		1.0	0.11	1		04/19/13 05:33	75-27-4	
Bromoform	ND ug/L		4.0	0.068	1		04/19/13 05:33	75-25-2	
Bromomethane	ND ug/L		10.0	0.36	1		04/19/13 05:33	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	2.5	1		04/19/13 05:33	78-93-3	
n-Butylbenzene	ND ug/L		1.0	0.15	1		04/19/13 05:33	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	0.10	1		04/19/13 05:33	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	0.10	1		04/19/13 05:33	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	0.16	1		04/19/13 05:33	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.10	1		04/19/13 05:33	108-90-7	
Chloroethane	ND ug/L		1.0	0.22	1		04/19/13 05:33	75-00-3	
Chloroform	ND ug/L		1.0	0.14	1		04/19/13 05:33	67-66-3	
Chloromethane	ND ug/L		4.0	0.41	1		04/19/13 05:33	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.50	1		04/19/13 05:33	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.068	1		04/19/13 05:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	0.62	1		04/19/13 05:33	96-12-8	
Dibromochloromethane	ND ug/L		1.0	0.10	1		04/19/13 05:33	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	0.091	1		04/19/13 05:33	106-93-4	
Dibromomethane	ND ug/L		4.0	0.21	1		04/19/13 05:33	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.36	1		04/19/13 05:33	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.11	1		04/19/13 05:33	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.064	1		04/19/13 05:33	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.20	1		04/19/13 05:33	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.11	1		04/19/13 05:33	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.37	1		04/19/13 05:33	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.19	1		04/19/13 05:33	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.085	1		04/19/13 05:33	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.15	1		04/19/13 05:33	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	0.11	1		04/19/13 05:33	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	0.27	1		04/19/13 05:33	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.081	1		04/19/13 05:33	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	0.15	1		04/19/13 05:33	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.35	1		04/19/13 05:33	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	0.090	1		04/19/13 05:33	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	0.37	1		04/19/13 05:33	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	2.0	1		04/19/13 05:33	60-29-7	
Ethylbenzene	ND ug/L		1.0	0.081	1		04/19/13 05:33	100-41-4	

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ANALYTICAL RESULTS

Project: MCES 123840
Pace Project No.: 10225292

Sample: GP-5-14W	Lab ID: 10225292012	Collected: 04/10/13 14:50	Received: 04/12/13 15:40	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
Hexachloro-1,3-butadiene	ND ug/L		5.0	0.19	1		04/19/13 05:33	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	0.076	1		04/19/13 05:33	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	0.086	1		04/19/13 05:33	99-87-6	
Methylene Chloride	ND ug/L		4.0	2.0	1		04/19/13 05:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	2.5	1		04/19/13 05:33	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	0.088	1		04/19/13 05:33	1634-04-4	
Naphthalene	ND ug/L		4.0	0.068	1		04/19/13 05:33	91-20-3	
n-Propylbenzene	ND ug/L		1.0	0.078	1		04/19/13 05:33	103-65-1	
Styrene	ND ug/L		1.0	0.060	1		04/19/13 05:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	0.36	1		04/19/13 05:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.097	1		04/19/13 05:33	79-34-5	
Tetrachloroethene	ND ug/L		1.0	0.13	1		04/19/13 05:33	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	0.97	1		04/19/13 05:33	109-99-9	
Toluene	ND ug/L		1.0	0.077	1		04/19/13 05:33	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.13	1		04/19/13 05:33	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.25	1		04/19/13 05:33	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	0.19	1		04/19/13 05:33	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.15	1		04/19/13 05:33	79-00-5	
Trichloroethene	ND ug/L		1.0	0.083	1		04/19/13 05:33	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.13	1		04/19/13 05:33	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	0.33	1		04/19/13 05:33	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	0.18	1		04/19/13 05:33	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	0.071	1		04/19/13 05:33	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	0.087	1		04/19/13 05:33	108-67-8	
Vinyl chloride	ND ug/L		0.40	0.16	1		04/19/13 05:33	75-01-4	
Xylene (Total)	ND ug/L		3.0	0.22	1		04/19/13 05:33	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	96 %		75-125		1		04/19/13 05:33	17060-07-0	1M
Toluene-d8 (S)	98 %		75-125		1		04/19/13 05:33	2037-26-5	
4-Bromofluorobenzene (S)	99 %		75-125		1		04/19/13 05:33	460-00-4	

ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-6-4 Lab ID: 10225292013 Collected: 04/10/13 15:50 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	27.2 mg/kg		21.7	2.4	1	04/17/13 09:12	04/21/13 15:08		T6
Surrogates									
n-Triacontane (S)	79 %		50-150		1	04/17/13 09:12	04/21/13 15:08		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	ND mg/kg		13.3		1	04/15/13 17:39	04/16/13 21:24		
Surrogates									
a,a,a-Trifluorotoluene (S)	99 %		80-125		1	04/15/13 17:39	04/16/13 21:24	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	11.9 mg/kg		2.5	0.42	1	04/19/13 07:37	04/23/13 12:21	7440-38-2	
Barium	123 mg/kg		1.3	0.073	1	04/19/13 07:37	04/23/13 12:21	7440-39-3	
Cadmium	ND mg/kg		0.38	0.19	1	04/19/13 07:37	04/23/13 12:21	7440-43-9	
Chromium	6.3 mg/kg		1.3	0.19	1	04/19/13 07:37	04/23/13 12:21	7440-47-3	
Lead	9.5 mg/kg		2.5	0.18	1	04/19/13 07:37	04/23/13 12:21	7439-92-1	
Selenium	3.9 mg/kg		1.9	0.62	1	04/19/13 07:37	04/23/13 12:21	7782-49-2	
Silver	ND mg/kg		1.3	0.086	1	04/19/13 07:37	04/24/13 10:02	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.048	0.014	1	04/19/13 07:56	04/22/13 13:10	7439-97-6	
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	61.8 %		0.10	0.10	1		04/15/13 00:00		
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
Acenaphthene	ND mg/kg		0.86	0.10	1	04/16/13 14:01	04/22/13 11:16	83-32-9	
Acenaphthylene	ND mg/kg		0.86	0.10	1	04/16/13 14:01	04/22/13 11:16	208-96-8	
Anthracene	ND mg/kg		0.86	0.11	1	04/16/13 14:01	04/22/13 11:16	120-12-7	
Benzidine	ND mg/kg		4.2	2.1	1	04/16/13 14:01	04/22/13 11:16	92-87-5	
Benzo(a)anthracene	1.5 mg/kg		0.86	0.12	1	04/16/13 14:01	04/22/13 11:16	56-55-3	
Benzo(a)pyrene	2.3 mg/kg		0.86	0.12	1	04/16/13 14:01	04/22/13 11:16	50-32-8	
Benzo(b)fluoranthene	3.0 mg/kg		0.86	0.12	1	04/16/13 14:01	04/22/13 11:16	205-99-2	
Benzo(g,h,i)perylene	1.8 mg/kg		0.86	0.13	1	04/16/13 14:01	04/22/13 11:16	191-24-2	
Benzo(k)fluoranthene	1.1 mg/kg		0.86	0.12	1	04/16/13 14:01	04/22/13 11:16	207-08-9	
Benzoic acid	ND mg/kg		4.4	1.2	1	04/16/13 14:01	04/22/13 11:16	65-85-0	
Benzyl alcohol	ND mg/kg		0.86	0.13	1	04/16/13 14:01	04/22/13 11:16	100-51-6	
4-Bromophenylphenyl ether	ND mg/kg		0.86	0.13	1	04/16/13 14:01	04/22/13 11:16	101-55-3	
Butylbenzylphthalate	ND mg/kg		0.86	0.12	1	04/16/13 14:01	04/22/13 11:16	85-68-7	
4-Chloro-3-methylphenol	ND mg/kg		0.86	0.10	1	04/16/13 14:01	04/22/13 11:16	59-50-7	
4-Chloroaniline	ND mg/kg		0.86	0.18	1	04/16/13 14:01	04/22/13 11:16	106-47-8	CL
bis(2-Chloroethoxy)methane	ND mg/kg		0.86	0.15	1	04/16/13 14:01	04/22/13 11:16	111-91-1	2M
bis(2-Chloroethyl) ether	ND mg/kg		0.86	0.18	1	04/16/13 14:01	04/22/13 11:16	111-44-4	
bis(2-Chloroisopropyl) ether	ND mg/kg		0.86	0.21	1	04/16/13 14:01	04/22/13 11:16	108-60-1	
2-Chloronaphthalene	ND mg/kg		0.86	0.10	1	04/16/13 14:01	04/22/13 11:16	91-58-7	
2-Chlorophenol	ND mg/kg		0.86	0.19	1	04/16/13 14:01	04/22/13 11:16	95-57-8	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-6-4 Lab ID: 10225292013 Collected: 04/10/13 15:50 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3550							
4-Chlorophenylphenyl ether	ND mg/kg	0.86	0.12	1	04/16/13 14:01	04/22/13 11:16	7005-72-3		
Chrysene	1.9 mg/kg	0.86	0.12	1	04/16/13 14:01	04/22/13 11:16	218-01-9		
Dibenz(a,h)anthracene	ND mg/kg	0.86	0.13	1	04/16/13 14:01	04/22/13 11:16	53-70-3		
Dibenzofuran	ND mg/kg	0.86	0.10	1	04/16/13 14:01	04/22/13 11:16	132-64-9		
1,2-Dichlorobenzene	ND mg/kg	0.86	0.18	1	04/16/13 14:01	04/22/13 11:16	95-50-1		
1,3-Dichlorobenzene	ND mg/kg	0.86	0.20	1	04/16/13 14:01	04/22/13 11:16	541-73-1		
1,4-Dichlorobenzene	ND mg/kg	0.86	0.18	1	04/16/13 14:01	04/22/13 11:16	106-46-7		
3,3'-Dichlorobenzidine	ND mg/kg	0.86	0.43	1	04/16/13 14:01	04/22/13 11:16	91-94-1		
2,4-Dichlorophenol	ND mg/kg	0.86	0.13	1	04/16/13 14:01	04/22/13 11:16	120-83-2		
Diethylphthalate	ND mg/kg	0.86	0.11	1	04/16/13 14:01	04/22/13 11:16	84-66-2		
2,4-Dimethylphenol	ND mg/kg	0.86	0.14	1	04/16/13 14:01	04/22/13 11:16	105-67-9		
Dimethylphthalate	ND mg/kg	0.86	0.12	1	04/16/13 14:01	04/22/13 11:16	131-11-3		
Di-n-butylphthalate	ND mg/kg	0.86	0.089	1	04/16/13 14:01	04/22/13 11:16	84-74-2		
4,6-Dinitro-2-methylphenol	ND mg/kg	4.4	0.72	1	04/16/13 14:01	04/22/13 11:16	534-52-1		
2,4-Dinitrophenol	ND mg/kg	0.86	0.12	1	04/16/13 14:01	04/22/13 11:16	51-28-5		
2,4-Dinitrotoluene	ND mg/kg	0.86	0.14	1	04/16/13 14:01	04/22/13 11:16	121-14-2		
2,6-Dinitrotoluene	ND mg/kg	0.86	0.12	1	04/16/13 14:01	04/22/13 11:16	606-20-2		
Di-n-octylphthalate	ND mg/kg	0.86	0.13	1	04/16/13 14:01	04/22/13 11:16	117-84-0		
bis(2-Ethylhexyl)phthalate	ND mg/kg	0.86	0.20	1	04/16/13 14:01	04/22/13 11:16	117-81-7		
Fluoranthene	1.9 mg/kg	0.86	0.11	1	04/16/13 14:01	04/22/13 11:16	206-44-0		
Fluorene	ND mg/kg	0.86	0.11	1	04/16/13 14:01	04/22/13 11:16	86-73-7		
Hexachloro-1,3-butadiene	ND mg/kg	0.86	0.21	1	04/16/13 14:01	04/22/13 11:16	87-68-3		
Hexachlorobenzene	ND mg/kg	0.86	0.12	1	04/16/13 14:01	04/22/13 11:16	118-74-1		
Hexachlorocyclopentadiene	ND mg/kg	0.86	0.43	1	04/16/13 14:01	04/22/13 11:16	77-47-4		
Hexachloroethane	ND mg/kg	0.86	0.20	1	04/16/13 14:01	04/22/13 11:16	67-72-1		
Indeno(1,2,3-cd)pyrene	1.4 mg/kg	0.86	0.13	1	04/16/13 14:01	04/22/13 11:16	193-39-5		
Isophorone	ND mg/kg	0.86	0.10	1	04/16/13 14:01	04/22/13 11:16	78-59-1		
2-Methylnaphthalene	ND mg/kg	0.86	0.13	1	04/16/13 14:01	04/22/13 11:16	91-57-6		
2-Methylphenol(o-Cresol)	ND mg/kg	0.86	0.13	1	04/16/13 14:01	04/22/13 11:16	95-48-7		
3&4-Methylphenol	ND mg/kg	1.7	0.12	1	04/16/13 14:01	04/22/13 11:16			
Naphthalene	ND mg/kg	0.86	0.17	1	04/16/13 14:01	04/22/13 11:16	91-20-3		
2-Nitroaniline	ND mg/kg	0.86	0.12	1	04/16/13 14:01	04/22/13 11:16	88-74-4		
3-Nitroaniline	ND mg/kg	0.86	0.17	1	04/16/13 14:01	04/22/13 11:16	99-09-2		
4-Nitroaniline	ND mg/kg	0.86	0.13	1	04/16/13 14:01	04/22/13 11:16	100-01-6		
Nitrobenzene	ND mg/kg	0.86	0.17	1	04/16/13 14:01	04/22/13 11:16	98-95-3		
2-Nitrophenol	ND mg/kg	0.86	0.14	1	04/16/13 14:01	04/22/13 11:16	88-75-5		
4-Nitrophenol	ND mg/kg	0.86	0.16	1	04/16/13 14:01	04/22/13 11:16	100-02-7		
N-Nitroso-di-n-propylamine	ND mg/kg	0.86	0.13	1	04/16/13 14:01	04/22/13 11:16	621-64-7		
N-Nitrosodiphenylamine	ND mg/kg	0.86	0.12	1	04/16/13 14:01	04/22/13 11:16	86-30-6		
Pentachlorophenol	ND mg/kg	1.7	0.87	1	04/16/13 14:01	04/22/13 11:16	87-86-5		
Phenanthrene	ND mg/kg	0.86	0.12	1	04/16/13 14:01	04/22/13 11:16	85-01-8		
Phenol	ND mg/kg	0.86	0.16	1	04/16/13 14:01	04/22/13 11:16	108-95-2		
Pyrene	2.4 mg/kg	0.86	0.12	1	04/16/13 14:01	04/22/13 11:16	129-00-0		
1,2,4-Trichlorobenzene	ND mg/kg	0.86	0.18	1	04/16/13 14:01	04/22/13 11:16	120-82-1		
2,4,5-Trichlorophenol	ND mg/kg	0.86	0.15	1	04/16/13 14:01	04/22/13 11:16	95-95-4		

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-6-4 Lab ID: 10225292013 Collected: 04/10/13 15:50 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
2,4,6-Trichlorophenol	ND mg/kg		0.86	0.13	1	04/16/13 14:01	04/22/13 11:16	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	55 %		30-127		1	04/16/13 14:01	04/22/13 11:16	4165-60-0	
2-Fluorobiphenyl (S)	72 %		42-125		1	04/16/13 14:01	04/22/13 11:16	321-60-8	
Terphenyl-d14 (S)	71 %		51-125		1	04/16/13 14:01	04/22/13 11:16	1718-51-0	
Phenol-d6 (S)	65 %		30-125		1	04/16/13 14:01	04/22/13 11:16	13127-88-3	
2-Fluorophenol (S)	63 %		30-127		1	04/16/13 14:01	04/22/13 11:16	367-12-4	
2,4,6-Tribromophenol (S)	80 %		46-125		1	04/16/13 14:01	04/22/13 11:16	118-79-6	
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Acetone	ND mg/kg		2.8	1.4	1	04/16/13 10:11	04/16/13 17:00	67-64-1	
Allyl chloride	ND mg/kg		0.56	0.12	1	04/16/13 10:11	04/16/13 17:00	107-05-1	
Benzene	ND mg/kg		0.056	0.013	1	04/16/13 10:11	04/16/13 17:00	71-43-2	
Bromobenzene	ND mg/kg		0.14	0.016	1	04/16/13 10:11	04/16/13 17:00	108-86-1	
Bromochloromethane	ND mg/kg		0.14	0.047	1	04/16/13 10:11	04/16/13 17:00	74-97-5	
Bromodichloromethane	ND mg/kg		0.14	0.022	1	04/16/13 10:11	04/16/13 17:00	75-27-4	
Bromoform	ND mg/kg		0.56	0.026	1	04/16/13 10:11	04/16/13 17:00	75-25-2	
Bromomethane	ND mg/kg		1.4	0.095	1	04/16/13 10:11	04/16/13 17:00	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.70	0.35	1	04/16/13 10:11	04/16/13 17:00	78-93-3	
n-Butylbenzene	ND mg/kg		0.14	0.018	1	04/16/13 10:11	04/16/13 17:00	104-51-8	
sec-Butylbenzene	ND mg/kg		0.14	0.012	1	04/16/13 10:11	04/16/13 17:00	135-98-8	
tert-Butylbenzene	ND mg/kg		0.14	0.014	1	04/16/13 10:11	04/16/13 17:00	98-06-6	
Carbon tetrachloride	ND mg/kg		0.14	0.027	1	04/16/13 10:11	04/16/13 17:00	56-23-5	
Chlorobenzene	ND mg/kg		0.14	0.016	1	04/16/13 10:11	04/16/13 17:00	108-90-7	
Chloroethane	ND mg/kg		1.4	0.11	1	04/16/13 10:11	04/16/13 17:00	75-00-3	
Chloroform	ND mg/kg		0.14	0.014	1	04/16/13 10:11	04/16/13 17:00	67-66-3	
Chloromethane	ND mg/kg		0.56	0.13	1	04/16/13 10:11	04/16/13 17:00	74-87-3	
2-Chlorotoluene	ND mg/kg		0.14	0.019	1	04/16/13 10:11	04/16/13 17:00	95-49-8	
4-Chlorotoluene	ND mg/kg		0.14	0.018	1	04/16/13 10:11	04/16/13 17:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.56	0.12	1	04/16/13 10:11	04/16/13 17:00	96-12-8	
Dibromochloromethane	ND mg/kg		0.14	0.012	1	04/16/13 10:11	04/16/13 17:00	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.14	0.024	1	04/16/13 10:11	04/16/13 17:00	106-93-4	
Dibromomethane	ND mg/kg		0.14	0.035	1	04/16/13 10:11	04/16/13 17:00	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.14	0.016	1	04/16/13 10:11	04/16/13 17:00	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.14	0.011	1	04/16/13 10:11	04/16/13 17:00	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.14	0.016	1	04/16/13 10:11	04/16/13 17:00	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.14	0.035	1	04/16/13 10:11	04/16/13 17:00	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.14	0.070	1	04/16/13 10:11	04/16/13 17:00	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.14	0.018	1	04/16/13 10:11	04/16/13 17:00	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.14	0.020	1	04/16/13 10:11	04/16/13 17:00	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.14	0.024	1	04/16/13 10:11	04/16/13 17:00	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.14	0.026	1	04/16/13 10:11	04/16/13 17:00	156-60-5	
Dichlorofluoromethane	ND mg/kg		1.4	0.090	1	04/16/13 10:11	04/16/13 17:00	75-43-4	
1,2-Dichloropropane	ND mg/kg		0.14	0.070	1	04/16/13 10:11	04/16/13 17:00	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.14	0.020	1	04/16/13 10:11	04/16/13 17:00	142-28-9	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-6-4 Lab ID: 10225292013 Collected: 04/10/13 15:50 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
2,2-Dichloropropane	ND mg/kg	0.56	0.020	1	04/16/13 10:11	04/16/13 17:00	594-20-7		
1,1-Dichloropropene	ND mg/kg	0.14	0.019	1	04/16/13 10:11	04/16/13 17:00	563-58-6		
cis-1,3-Dichloropropene	ND mg/kg	0.14	0.022	1	04/16/13 10:11	04/16/13 17:00	10061-01-5		
trans-1,3-Dichloropropene	ND mg/kg	0.14	0.024	1	04/16/13 10:11	04/16/13 17:00	10061-02-6		
Diethyl ether (Ethyl ether)	ND mg/kg	0.56	0.12	1	04/16/13 10:11	04/16/13 17:00	60-29-7		
Ethylbenzene	ND mg/kg	0.14	0.012	1	04/16/13 10:11	04/16/13 17:00	100-41-4		
Hexachloro-1,3-butadiene	ND mg/kg	0.70	0.061	1	04/16/13 10:11	04/16/13 17:00	87-68-3		
Isopropylbenzene (Cumene)	ND mg/kg	0.14	0.017	1	04/16/13 10:11	04/16/13 17:00	98-82-8		
p-Isopropyltoluene	ND mg/kg	0.14	0.017	1	04/16/13 10:11	04/16/13 17:00	99-87-6		
Methylene Chloride	ND mg/kg	0.56	0.28	1	04/16/13 10:11	04/16/13 17:00	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND mg/kg	0.70	0.35	1	04/16/13 10:11	04/16/13 17:00	108-10-1		
Methyl-tert-butyl ether	ND mg/kg	0.14	0.025	1	04/16/13 10:11	04/16/13 17:00	1634-04-4		
Naphthalene	ND mg/kg	0.56	0.016	1	04/16/13 10:11	04/16/13 17:00	91-20-3		
n-Propylbenzene	ND mg/kg	0.14	0.014	1	04/16/13 10:11	04/16/13 17:00	103-65-1		
Styrene	ND mg/kg	0.14	0.070	1	04/16/13 10:11	04/16/13 17:00	100-42-5		
1,1,1,2-Tetrachloroethane	ND mg/kg	0.14	0.070	1	04/16/13 10:11	04/16/13 17:00	630-20-6		
1,1,2,2-Tetrachloroethane	ND mg/kg	0.14	0.026	1	04/16/13 10:11	04/16/13 17:00	79-34-5		
Tetrachloroethene	ND mg/kg	0.14	0.020	1	04/16/13 10:11	04/16/13 17:00	127-18-4		
Tetrahydrofuran	ND mg/kg	5.6	0.39	1	04/16/13 10:11	04/16/13 17:00	109-99-9		
Toluene	ND mg/kg	0.14	0.021	1	04/16/13 10:11	04/16/13 17:00	108-88-3		
1,2,3-Trichlorobenzene	ND mg/kg	0.14	0.021	1	04/16/13 10:11	04/16/13 17:00	87-61-6		
1,2,4-Trichlorobenzene	ND mg/kg	0.14	0.026	1	04/16/13 10:11	04/16/13 17:00	120-82-1		
1,1,1-Trichloroethane	ND mg/kg	0.14	0.019	1	04/16/13 10:11	04/16/13 17:00	71-55-6		
1,1,2-Trichloroethane	ND mg/kg	0.14	0.034	1	04/16/13 10:11	04/16/13 17:00	79-00-5		
Trichloroethene	ND mg/kg	0.14	0.024	1	04/16/13 10:11	04/16/13 17:00	79-01-6		
Trichlorofluoromethane	ND mg/kg	0.56	0.049	1	04/16/13 10:11	04/16/13 17:00	75-69-4		
1,2,3-Trichloropropane	ND mg/kg	0.56	0.037	1	04/16/13 10:11	04/16/13 17:00	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND mg/kg	0.14	0.057	1	04/16/13 10:11	04/16/13 17:00	76-13-1		
1,2,4-Trimethylbenzene	ND mg/kg	0.14	0.017	1	04/16/13 10:11	04/16/13 17:00	95-63-6		
1,3,5-Trimethylbenzene	ND mg/kg	0.14	0.017	1	04/16/13 10:11	04/16/13 17:00	108-67-8		
Vinyl chloride	ND mg/kg	0.056	0.021	1	04/16/13 10:11	04/16/13 17:00	75-01-4		
Xylene (Total)	ND mg/kg	0.42	0.046	1	04/16/13 10:11	04/16/13 17:00	1330-20-7		
Surrogates									
1,2-Dichloroethane-d4 (S)	94 %	57-150		1	04/16/13 10:11	04/16/13 17:00	17060-07-0		
Toluene-d8 (S)	95 %	70-136		1	04/16/13 10:11	04/16/13 17:00	2037-26-5		
4-Bromofluorobenzene (S)	96 %	67-138		1	04/16/13 10:11	04/16/13 17:00	460-00-4		

ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-7-3 Lab ID: 10225292015 Collected: 04/10/13 16:25 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	36.3 mg/kg		8.8	0.97	1	04/17/13 09:12	04/21/13 15:42		T6
Surrogates									
n-Triacontane (S)	87 %		50-150		1	04/17/13 09:12	04/21/13 15:42		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	ND mg/kg		5.5		1	04/15/13 17:39	04/16/13 21:43		
Surrogates									
a,a,a-Trifluorotoluene (S)	98 %		80-125		1	04/15/13 17:39	04/16/13 21:43	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	5.5 mg/kg		0.94	0.16	1	04/19/13 07:37	04/23/13 12:27	7440-38-2	
Barium	38.4 mg/kg		0.47	0.027	1	04/19/13 07:37	04/23/13 12:27	7440-39-3	
Cadmium	ND mg/kg		0.14	0.071	1	04/19/13 07:37	04/23/13 12:27	7440-43-9	
Chromium	7.8 mg/kg		0.47	0.071	1	04/19/13 07:37	04/23/13 12:27	7440-47-3	
Lead	3.8 mg/kg		0.94	0.068	1	04/19/13 07:37	04/23/13 12:27	7439-92-1	
Selenium	ND mg/kg		0.71	0.23	1	04/19/13 07:37	04/23/13 12:27	7782-49-2	
Silver	ND mg/kg		0.47	0.032	1	04/19/13 07:37	04/24/13 10:08	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.021	0.0062	1	04/19/13 07:56	04/22/13 13:17	7439-97-6	
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	6.7 %		0.10	0.10	1		04/15/13 00:00		
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
Acenaphthene	ND mg/kg		1.1	0.13	1	04/16/13 14:01	04/22/13 15:22	83-32-9	
Acenaphthylene	ND mg/kg		1.1	0.12	1	04/16/13 14:01	04/22/13 15:22	208-96-8	
Anthracene	ND mg/kg		1.1	0.14	1	04/16/13 14:01	04/22/13 15:22	120-12-7	
Benzidine	ND mg/kg		5.1	2.6	1	04/16/13 14:01	04/22/13 15:22	92-87-5	
Benzo(a)anthracene	ND mg/kg		1.1	0.15	1	04/16/13 14:01	04/22/13 15:22	56-55-3	
Benzo(a)pyrene	1.3 mg/kg		1.1	0.15	1	04/16/13 14:01	04/22/13 15:22	50-32-8	
Benzo(b)fluoranthene	1.8 mg/kg		1.1	0.15	1	04/16/13 14:01	04/22/13 15:22	205-99-2	
Benzo(g,h,i)perylene	ND mg/kg		1.1	0.16	1	04/16/13 14:01	04/22/13 15:22	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		1.1	0.15	1	04/16/13 14:01	04/22/13 15:22	207-08-9	
Benzoic acid	ND mg/kg		5.5	1.5	1	04/16/13 14:01	04/22/13 15:22	65-85-0	
Benzyl alcohol	ND mg/kg		1.1	0.16	1	04/16/13 14:01	04/22/13 15:22	100-51-6	
4-Bromophenylphenyl ether	ND mg/kg		1.1	0.16	1	04/16/13 14:01	04/22/13 15:22	101-55-3	
Butylbenzylphthalate	ND mg/kg		1.1	0.14	1	04/16/13 14:01	04/22/13 15:22	85-68-7	
4-Chloro-3-methylphenol	ND mg/kg		1.1	0.12	1	04/16/13 14:01	04/22/13 15:22	59-50-7	
4-Chloroaniline	ND mg/kg		1.1	0.23	1	04/16/13 14:01	04/22/13 15:22	106-47-8	CL
bis(2-Chloroethoxy)methane	ND mg/kg		1.1	0.18	1	04/16/13 14:01	04/22/13 15:22	111-91-1	2M
bis(2-Chloroethyl) ether	ND mg/kg		1.1	0.22	1	04/16/13 14:01	04/22/13 15:22	111-44-4	
bis(2-Chloroisopropyl) ether	ND mg/kg		1.1	0.25	1	04/16/13 14:01	04/22/13 15:22	108-60-1	
2-Chloronaphthalene	ND mg/kg		1.1	0.13	1	04/16/13 14:01	04/22/13 15:22	91-58-7	
2-Chlorophenol	ND mg/kg		1.1	0.23	1	04/16/13 14:01	04/22/13 15:22	95-57-8	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-7-3 Lab ID: 10225292015 Collected: 04/10/13 16:25 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3550							
4-Chlorophenylphenyl ether	ND mg/kg		1.1	0.14	1	04/16/13 14:01	04/22/13 15:22	7005-72-3	
Chrysene	1.2 mg/kg		1.1	0.15	1	04/16/13 14:01	04/22/13 15:22	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		1.1	0.16	1	04/16/13 14:01	04/22/13 15:22	53-70-3	
Dibenzofuran	ND mg/kg		1.1	0.13	1	04/16/13 14:01	04/22/13 15:22	132-64-9	
1,2-Dichlorobenzene	ND mg/kg		1.1	0.23	1	04/16/13 14:01	04/22/13 15:22	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		1.1	0.24	1	04/16/13 14:01	04/22/13 15:22	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		1.1	0.23	1	04/16/13 14:01	04/22/13 15:22	106-46-7	
3,3'-Dichlorobenzidine	ND mg/kg		1.1	0.53	1	04/16/13 14:01	04/22/13 15:22	91-94-1	
2,4-Dichlorophenol	ND mg/kg		1.1	0.16	1	04/16/13 14:01	04/22/13 15:22	120-83-2	
Diethylphthalate	ND mg/kg		1.1	0.14	1	04/16/13 14:01	04/22/13 15:22	84-66-2	
2,4-Dimethylphenol	ND mg/kg		1.1	0.17	1	04/16/13 14:01	04/22/13 15:22	105-67-9	
Dimethylphthalate	ND mg/kg		1.1	0.15	1	04/16/13 14:01	04/22/13 15:22	131-11-3	
Di-n-butylphthalate	ND mg/kg		1.1	0.11	1	04/16/13 14:01	04/22/13 15:22	84-74-2	
4,6-Dinitro-2-methylphenol	ND mg/kg		5.5	0.89	1	04/16/13 14:01	04/22/13 15:22	534-52-1	
2,4-Dinitrophenol	ND mg/kg		1.1	0.15	1	04/16/13 14:01	04/22/13 15:22	51-28-5	
2,4-Dinitrotoluene	ND mg/kg		1.1	0.18	1	04/16/13 14:01	04/22/13 15:22	121-14-2	
2,6-Dinitrotoluene	ND mg/kg		1.1	0.15	1	04/16/13 14:01	04/22/13 15:22	606-20-2	
Di-n-octylphthalate	ND mg/kg		1.1	0.16	1	04/16/13 14:01	04/22/13 15:22	117-84-0	
bis(2-Ethylhexyl)phthalate	ND mg/kg		1.1	0.25	1	04/16/13 14:01	04/22/13 15:22	117-81-7	
Fluoranthene	1.1 mg/kg		1.1	0.13	1	04/16/13 14:01	04/22/13 15:22	206-44-0	
Fluorene	ND mg/kg		1.1	0.14	1	04/16/13 14:01	04/22/13 15:22	86-73-7	
Hexachloro-1,3-butadiene	ND mg/kg		1.1	0.26	1	04/16/13 14:01	04/22/13 15:22	87-68-3	
Hexachlorobenzene	ND mg/kg		1.1	0.15	1	04/16/13 14:01	04/22/13 15:22	118-74-1	
Hexachlorocyclopentadiene	ND mg/kg		1.1	0.53	1	04/16/13 14:01	04/22/13 15:22	77-47-4	
Hexachloroethane	ND mg/kg		1.1	0.25	1	04/16/13 14:01	04/22/13 15:22	67-72-1	
Indeno(1,2,3-cd)pyrene	ND mg/kg		1.1	0.16	1	04/16/13 14:01	04/22/13 15:22	193-39-5	
Isophorone	ND mg/kg		1.1	0.13	1	04/16/13 14:01	04/22/13 15:22	78-59-1	
2-Methylnaphthalene	ND mg/kg		1.1	0.16	1	04/16/13 14:01	04/22/13 15:22	91-57-6	
2-Methylphenol(o-Cresol)	ND mg/kg		1.1	0.16	1	04/16/13 14:01	04/22/13 15:22	95-48-7	
3&4-Methylphenol	ND mg/kg		2.1	0.14	1	04/16/13 14:01	04/22/13 15:22		
Naphthalene	ND mg/kg		1.1	0.21	1	04/16/13 14:01	04/22/13 15:22	91-20-3	
2-Nitroaniline	ND mg/kg		1.1	0.15	1	04/16/13 14:01	04/22/13 15:22	88-74-4	
3-Nitroaniline	ND mg/kg		1.1	0.21	1	04/16/13 14:01	04/22/13 15:22	99-09-2	
4-Nitroaniline	ND mg/kg		1.1	0.16	1	04/16/13 14:01	04/22/13 15:22	100-01-6	
Nitrobenzene	ND mg/kg		1.1	0.21	1	04/16/13 14:01	04/22/13 15:22	98-95-3	
2-Nitrophenol	ND mg/kg		1.1	0.18	1	04/16/13 14:01	04/22/13 15:22	88-75-5	
4-Nitrophenol	ND mg/kg		1.1	0.20	1	04/16/13 14:01	04/22/13 15:22	100-02-7	
N-Nitroso-di-n-propylamine	ND mg/kg		1.1	0.16	1	04/16/13 14:01	04/22/13 15:22	621-64-7	
N-Nitrosodiphenylamine	ND mg/kg		1.1	0.15	1	04/16/13 14:01	04/22/13 15:22	86-30-6	
Pentachlorophenol	ND mg/kg		2.2	1.1	1	04/16/13 14:01	04/22/13 15:22	87-86-5	
Phenanthrene	ND mg/kg		1.1	0.14	1	04/16/13 14:01	04/22/13 15:22	85-01-8	
Phenol	ND mg/kg		1.1	0.19	1	04/16/13 14:01	04/22/13 15:22	108-95-2	
Pyrene	1.2 mg/kg		1.1	0.15	1	04/16/13 14:01	04/22/13 15:22	129-00-0	
1,2,4-Trichlorobenzene	ND mg/kg		1.1	0.22	1	04/16/13 14:01	04/22/13 15:22	120-82-1	
2,4,5-Trichlorophenol	ND mg/kg		1.1	0.18	1	04/16/13 14:01	04/22/13 15:22	95-95-4	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-7-3 Lab ID: 10225292015 Collected: 04/10/13 16:25 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
2,4,6-Trichlorophenol	ND mg/kg		1.1	0.16	1	04/16/13 14:01	04/22/13 15:22	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	56 %		30-127		1	04/16/13 14:01	04/22/13 15:22	4165-60-0	P3
2-Fluorobiphenyl (S)	78 %		42-125		1	04/16/13 14:01	04/22/13 15:22	321-60-8	
Terphenyl-d14 (S)	79 %		51-125		1	04/16/13 14:01	04/22/13 15:22	1718-51-0	
Phenol-d6 (S)	67 %		30-125		1	04/16/13 14:01	04/22/13 15:22	13127-88-3	
2-Fluorophenol (S)	61 %		30-127		1	04/16/13 14:01	04/22/13 15:22	367-12-4	
2,4,6-Tribromophenol (S)	82 %		46-125		1	04/16/13 14:01	04/22/13 15:22	118-79-6	
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Acetone	ND mg/kg		1.1	0.53	1	04/16/13 10:11	04/16/13 17:33	67-64-1	
Allyl chloride	ND mg/kg		0.21	0.044	1	04/16/13 10:11	04/16/13 17:33	107-05-1	
Benzene	ND mg/kg		0.021	0.0050	1	04/16/13 10:11	04/16/13 17:33	71-43-2	
Bromobenzene	ND mg/kg		0.053	0.0059	1	04/16/13 10:11	04/16/13 17:33	108-86-1	
Bromochloromethane	ND mg/kg		0.053	0.018	1	04/16/13 10:11	04/16/13 17:33	74-97-5	
Bromodichloromethane	ND mg/kg		0.053	0.0084	1	04/16/13 10:11	04/16/13 17:33	75-27-4	
Bromoform	ND mg/kg		0.21	0.0098	1	04/16/13 10:11	04/16/13 17:33	75-25-2	
Bromomethane	ND mg/kg		0.53	0.036	1	04/16/13 10:11	04/16/13 17:33	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.26	0.13	1	04/16/13 10:11	04/16/13 17:33	78-93-3	
n-Butylbenzene	ND mg/kg		0.053	0.0069	1	04/16/13 10:11	04/16/13 17:33	104-51-8	
sec-Butylbenzene	ND mg/kg		0.053	0.0044	1	04/16/13 10:11	04/16/13 17:33	135-98-8	
tert-Butylbenzene	ND mg/kg		0.053	0.0055	1	04/16/13 10:11	04/16/13 17:33	98-06-6	
Carbon tetrachloride	ND mg/kg		0.053	0.010	1	04/16/13 10:11	04/16/13 17:33	56-23-5	
Chlorobenzene	ND mg/kg		0.053	0.0060	1	04/16/13 10:11	04/16/13 17:33	108-90-7	
Chloroethane	ND mg/kg		0.53	0.043	1	04/16/13 10:11	04/16/13 17:33	75-00-3	
Chloroform	ND mg/kg		0.053	0.0051	1	04/16/13 10:11	04/16/13 17:33	67-66-3	
Chloromethane	ND mg/kg		0.21	0.050	1	04/16/13 10:11	04/16/13 17:33	74-87-3	
2-Chlorotoluene	ND mg/kg		0.053	0.0071	1	04/16/13 10:11	04/16/13 17:33	95-49-8	
4-Chlorotoluene	ND mg/kg		0.053	0.0067	1	04/16/13 10:11	04/16/13 17:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.21	0.047	1	04/16/13 10:11	04/16/13 17:33	96-12-8	
Dibromochloromethane	ND mg/kg		0.053	0.0044	1	04/16/13 10:11	04/16/13 17:33	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.053	0.0089	1	04/16/13 10:11	04/16/13 17:33	106-93-4	
Dibromomethane	ND mg/kg		0.053	0.013	1	04/16/13 10:11	04/16/13 17:33	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.053	0.0061	1	04/16/13 10:11	04/16/13 17:33	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.053	0.0043	1	04/16/13 10:11	04/16/13 17:33	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.053	0.0059	1	04/16/13 10:11	04/16/13 17:33	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.053	0.013	1	04/16/13 10:11	04/16/13 17:33	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.053	0.026	1	04/16/13 10:11	04/16/13 17:33	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.053	0.0070	1	04/16/13 10:11	04/16/13 17:33	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.053	0.0077	1	04/16/13 10:11	04/16/13 17:33	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.053	0.0091	1	04/16/13 10:11	04/16/13 17:33	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.053	0.0098	1	04/16/13 10:11	04/16/13 17:33	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.53	0.034	1	04/16/13 10:11	04/16/13 17:33	75-43-4	
1,2-Dichloropropane	ND mg/kg		0.053	0.026	1	04/16/13 10:11	04/16/13 17:33	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.053	0.0075	1	04/16/13 10:11	04/16/13 17:33	142-28-9	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-7-3 Lab ID: 10225292015 Collected: 04/10/13 16:25 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
2,2-Dichloropropane	ND mg/kg		0.21	0.0075	1	04/16/13 10:11	04/16/13 17:33	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.053	0.0073	1	04/16/13 10:11	04/16/13 17:33	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.053	0.0082	1	04/16/13 10:11	04/16/13 17:33	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.053	0.0089	1	04/16/13 10:11	04/16/13 17:33	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.21	0.046	1	04/16/13 10:11	04/16/13 17:33	60-29-7	
Ethylbenzene	ND mg/kg		0.053	0.0044	1	04/16/13 10:11	04/16/13 17:33	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.26	0.023	1	04/16/13 10:11	04/16/13 17:33	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.053	0.0064	1	04/16/13 10:11	04/16/13 17:33	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.053	0.0063	1	04/16/13 10:11	04/16/13 17:33	99-87-6	
Methylene Chloride	ND mg/kg		0.21	0.11	1	04/16/13 10:11	04/16/13 17:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.26	0.13	1	04/16/13 10:11	04/16/13 17:33	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.053	0.0095	1	04/16/13 10:11	04/16/13 17:33	1634-04-4	
Naphthalene	ND mg/kg		0.21	0.0060	1	04/16/13 10:11	04/16/13 17:33	91-20-3	
n-Propylbenzene	ND mg/kg		0.053	0.0053	1	04/16/13 10:11	04/16/13 17:33	103-65-1	
Styrene	ND mg/kg		0.053	0.026	1	04/16/13 10:11	04/16/13 17:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.053	0.026	1	04/16/13 10:11	04/16/13 17:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.053	0.0098	1	04/16/13 10:11	04/16/13 17:33	79-34-5	
Tetrachloroethene	ND mg/kg		0.053	0.0075	1	04/16/13 10:11	04/16/13 17:33	127-18-4	
Tetrahydrofuran	ND mg/kg		2.1	0.15	1	04/16/13 10:11	04/16/13 17:33	109-99-9	
Toluene	ND mg/kg		0.053	0.0080	1	04/16/13 10:11	04/16/13 17:33	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.053	0.0079	1	04/16/13 10:11	04/16/13 17:33	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.053	0.0099	1	04/16/13 10:11	04/16/13 17:33	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.053	0.0073	1	04/16/13 10:11	04/16/13 17:33	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.053	0.013	1	04/16/13 10:11	04/16/13 17:33	79-00-5	
Trichloroethene	ND mg/kg		0.053	0.0092	1	04/16/13 10:11	04/16/13 17:33	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.21	0.019	1	04/16/13 10:11	04/16/13 17:33	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.21	0.014	1	04/16/13 10:11	04/16/13 17:33	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.053	0.021	1	04/16/13 10:11	04/16/13 17:33	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.053	0.0063	1	04/16/13 10:11	04/16/13 17:33	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.053	0.0063	1	04/16/13 10:11	04/16/13 17:33	108-67-8	
Vinyl chloride	ND mg/kg		0.021	0.0079	1	04/16/13 10:11	04/16/13 17:33	75-01-4	
Xylene (Total)	ND mg/kg		0.16	0.018	1	04/16/13 10:11	04/16/13 17:33	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	95 %		57-150		1	04/16/13 10:11	04/16/13 17:33	17060-07-0	
Toluene-d8 (S)	95 %		70-136		1	04/16/13 10:11	04/16/13 17:33	2037-26-5	
4-Bromofluorobenzene (S)	97 %		67-138		1	04/16/13 10:11	04/16/13 17:33	460-00-4	

ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-8-3 Lab ID: 10225292018 Collected: 04/11/13 10:00 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	8.9 mg/kg		8.3	0.92	1	04/17/13 09:12	04/21/13 15:14		T6
Surrogates									
n-Triacontane (S)	84 %		50-150		1	04/17/13 09:12	04/21/13 15:14		
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Gasoline Range Organics	ND mg/kg		5.2		1	04/18/13 09:53	04/22/13 17:48		
Surrogates									
a,a,a-Trifluorotoluene (S)	103 %		80-125		1	04/18/13 09:53	04/22/13 17:48	98-08-8	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	6.6 mg/kg		0.73	0.12	1	04/19/13 07:37	04/23/13 12:32	7440-38-2	
Barium	39.6 mg/kg		0.37	0.021	1	04/19/13 07:37	04/23/13 12:32	7440-39-3	
Cadmium	ND mg/kg		0.11	0.055	1	04/19/13 07:37	04/23/13 12:32	7440-43-9	
Chromium	12.0 mg/kg		0.37	0.055	1	04/19/13 07:37	04/23/13 12:32	7440-47-3	
Lead	6.2 mg/kg		0.73	0.053	1	04/19/13 07:37	04/23/13 12:32	7439-92-1	
Selenium	ND mg/kg		0.55	0.18	1	04/19/13 07:37	04/23/13 12:32	7782-49-2	
Silver	ND mg/kg		0.37	0.025	1	04/19/13 07:37	04/24/13 10:13	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.022 mg/kg		0.019	0.0057	1	04/19/13 07:56	04/22/13 13:19	7439-97-6	
Dry Weight Analytical Method: ASTM D2974									
Percent Moisture	4.9 %		0.10	0.10	1		04/15/13 00:00		
8270 MSSV Analytical Method: EPA 8270 Preparation Method: EPA 3550									
Acenaphthene	ND mg/kg		0.35	0.041	1	04/16/13 14:01	04/22/13 17:11	83-32-9	
Acenaphthylene	ND mg/kg		0.35	0.040	1	04/16/13 14:01	04/22/13 17:11	208-96-8	
Anthracene	ND mg/kg		0.35	0.045	1	04/16/13 14:01	04/22/13 17:11	120-12-7	
Benzidine	ND mg/kg		1.7	0.84	1	04/16/13 14:01	04/22/13 17:11	92-87-5	
Benzo(a)anthracene	0.59 mg/kg		0.35	0.049	1	04/16/13 14:01	04/22/13 17:11	56-55-3	
Benzo(a)pyrene	0.68 mg/kg		0.35	0.050	1	04/16/13 14:01	04/22/13 17:11	50-32-8	
Benzo(b)fluoranthene	0.91 mg/kg		0.35	0.050	1	04/16/13 14:01	04/22/13 17:11	205-99-2	
Benzo(g,h,i)perylene	0.51 mg/kg		0.35	0.053	1	04/16/13 14:01	04/22/13 17:11	191-24-2	
Benzo(k)fluoranthene	0.40 mg/kg		0.35	0.048	1	04/16/13 14:01	04/22/13 17:11	207-08-9	
Benzoic acid	ND mg/kg		1.8	0.48	1	04/16/13 14:01	04/22/13 17:11	65-85-0	
Benzyl alcohol	ND mg/kg		0.35	0.051	1	04/16/13 14:01	04/22/13 17:11	100-51-6	
4-Bromophenylphenyl ether	ND mg/kg		0.35	0.053	1	04/16/13 14:01	04/22/13 17:11	101-55-3	
Butylbenzylphthalate	ND mg/kg		0.35	0.047	1	04/16/13 14:01	04/22/13 17:11	85-68-7	
4-Chloro-3-methylphenol	ND mg/kg		0.35	0.041	1	04/16/13 14:01	04/22/13 17:11	59-50-7	
4-Chloroaniline	ND mg/kg		0.35	0.074	1	04/16/13 14:01	04/22/13 17:11	106-47-8	CL
bis(2-Chloroethoxy)methane	ND mg/kg		0.35	0.059	1	04/16/13 14:01	04/22/13 17:11	111-91-1	2M
bis(2-Chloroethyl) ether	ND mg/kg		0.35	0.071	1	04/16/13 14:01	04/22/13 17:11	111-44-4	
bis(2-Chloroisopropyl) ether	ND mg/kg		0.35	0.083	1	04/16/13 14:01	04/22/13 17:11	108-60-1	
2-Chloronaphthalene	ND mg/kg		0.35	0.042	1	04/16/13 14:01	04/22/13 17:11	91-58-7	
2-Chlorophenol	ND mg/kg		0.35	0.076	1	04/16/13 14:01	04/22/13 17:11	95-57-8	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-8-3 Lab ID: 10225292018 Collected: 04/11/13 10:00 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3550							
4-Chlorophenylphenyl ether	ND mg/kg	0.35	0.047	1	04/16/13 14:01	04/22/13 17:11	7005-72-3		
Chrysene	0.74 mg/kg	0.35	0.050	1	04/16/13 14:01	04/22/13 17:11	218-01-9		
Dibenz(a,h)anthracene	ND mg/kg	0.35	0.054	1	04/16/13 14:01	04/22/13 17:11	53-70-3		
Dibenzofuran	ND mg/kg	0.35	0.042	1	04/16/13 14:01	04/22/13 17:11	132-64-9		
1,2-Dichlorobenzene	ND mg/kg	0.35	0.074	1	04/16/13 14:01	04/22/13 17:11	95-50-1		
1,3-Dichlorobenzene	ND mg/kg	0.35	0.079	1	04/16/13 14:01	04/22/13 17:11	541-73-1		
1,4-Dichlorobenzene	ND mg/kg	0.35	0.074	1	04/16/13 14:01	04/22/13 17:11	106-46-7		
3,3'-Dichlorobenzidine	ND mg/kg	0.35	0.17	1	04/16/13 14:01	04/22/13 17:11	91-94-1		
2,4-Dichlorophenol	ND mg/kg	0.35	0.052	1	04/16/13 14:01	04/22/13 17:11	120-83-2		
Diethylphthalate	ND mg/kg	0.35	0.046	1	04/16/13 14:01	04/22/13 17:11	84-66-2		
2,4-Dimethylphenol	ND mg/kg	0.35	0.057	1	04/16/13 14:01	04/22/13 17:11	105-67-9		
Dimethylphthalate	ND mg/kg	0.35	0.048	1	04/16/13 14:01	04/22/13 17:11	131-11-3		
Di-n-butylphthalate	ND mg/kg	0.35	0.036	1	04/16/13 14:01	04/22/13 17:11	84-74-2		
4,6-Dinitro-2-methylphenol	ND mg/kg	1.8	0.29	1	04/16/13 14:01	04/22/13 17:11	534-52-1		
2,4-Dinitrophenol	ND mg/kg	0.35	0.050	1	04/16/13 14:01	04/22/13 17:11	51-28-5		
2,4-Dinitrotoluene	ND mg/kg	0.35	0.058	1	04/16/13 14:01	04/22/13 17:11	121-14-2		
2,6-Dinitrotoluene	ND mg/kg	0.35	0.048	1	04/16/13 14:01	04/22/13 17:11	606-20-2		
Di-n-octylphthalate	ND mg/kg	0.35	0.051	1	04/16/13 14:01	04/22/13 17:11	117-84-0		
bis(2-Ethylhexyl)phthalate	ND mg/kg	0.35	0.081	1	04/16/13 14:01	04/22/13 17:11	117-81-7		
Fluoranthene	1.2 mg/kg	0.35	0.042	1	04/16/13 14:01	04/22/13 17:11	206-44-0		
Fluorene	ND mg/kg	0.35	0.045	1	04/16/13 14:01	04/22/13 17:11	86-73-7		
Hexachloro-1,3-butadiene	ND mg/kg	0.35	0.086	1	04/16/13 14:01	04/22/13 17:11	87-68-3		
Hexachlorobenzene	ND mg/kg	0.35	0.049	1	04/16/13 14:01	04/22/13 17:11	118-74-1		
Hexachlorocyclopentadiene	ND mg/kg	0.35	0.17	1	04/16/13 14:01	04/22/13 17:11	77-47-4		
Hexachloroethane	ND mg/kg	0.35	0.082	1	04/16/13 14:01	04/22/13 17:11	67-72-1		
Indeno(1,2,3-cd)pyrene	0.42 mg/kg	0.35	0.051	1	04/16/13 14:01	04/22/13 17:11	193-39-5		
Isophorone	ND mg/kg	0.35	0.042	1	04/16/13 14:01	04/22/13 17:11	78-59-1		
2-Methylnaphthalene	ND mg/kg	0.35	0.051	1	04/16/13 14:01	04/22/13 17:11	91-57-6		
2-Methylphenol(o-Cresol)	ND mg/kg	0.35	0.053	1	04/16/13 14:01	04/22/13 17:11	95-48-7		
3&4-Methylphenol	ND mg/kg	0.69	0.047	1	04/16/13 14:01	04/22/13 17:11			
Naphthalene	ND mg/kg	0.35	0.068	1	04/16/13 14:01	04/22/13 17:11	91-20-3		
2-Nitroaniline	ND mg/kg	0.35	0.048	1	04/16/13 14:01	04/22/13 17:11	88-74-4		
3-Nitroaniline	ND mg/kg	0.35	0.068	1	04/16/13 14:01	04/22/13 17:11	99-09-2		
4-Nitroaniline	ND mg/kg	0.35	0.051	1	04/16/13 14:01	04/22/13 17:11	100-01-6		
Nitrobenzene	ND mg/kg	0.35	0.070	1	04/16/13 14:01	04/22/13 17:11	98-95-3		
2-Nitrophenol	ND mg/kg	0.35	0.058	1	04/16/13 14:01	04/22/13 17:11	88-75-5		
4-Nitrophenol	ND mg/kg	0.35	0.066	1	04/16/13 14:01	04/22/13 17:11	100-02-7		
N-Nitroso-di-n-propylamine	ND mg/kg	0.35	0.054	1	04/16/13 14:01	04/22/13 17:11	621-64-7		
N-Nitrosodiphenylamine	ND mg/kg	0.35	0.050	1	04/16/13 14:01	04/22/13 17:11	86-30-6		
Pentachlorophenol	ND mg/kg	0.70	0.35	1	04/16/13 14:01	04/22/13 17:11	87-86-5		
Phenanthrene	0.40 mg/kg	0.35	0.046	1	04/16/13 14:01	04/22/13 17:11	85-01-8		
Phenol	ND mg/kg	0.35	0.063	1	04/16/13 14:01	04/22/13 17:11	108-95-2		
Pyrene	1.4 mg/kg	0.35	0.048	1	04/16/13 14:01	04/22/13 17:11	129-00-0		
1,2,4-Trichlorobenzene	ND mg/kg	0.35	0.072	1	04/16/13 14:01	04/22/13 17:11	120-82-1		
2,4,5-Trichlorophenol	ND mg/kg	0.35	0.060	1	04/16/13 14:01	04/22/13 17:11	95-95-4		

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-8-3 Lab ID: 10225292018 Collected: 04/11/13 10:00 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
2,4,6-Trichlorophenol	ND mg/kg		0.35	0.051	1	04/16/13 14:01	04/22/13 17:11	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	66 %		30-127		1	04/16/13 14:01	04/22/13 17:11	4165-60-0	
2-Fluorobiphenyl (S)	74 %		42-125		1	04/16/13 14:01	04/22/13 17:11	321-60-8	
Terphenyl-d14 (S)	77 %		51-125		1	04/16/13 14:01	04/22/13 17:11	1718-51-0	
Phenol-d6 (S)	78 %		30-125		1	04/16/13 14:01	04/22/13 17:11	13127-88-3	
2-Fluorophenol (S)	80 %		30-127		1	04/16/13 14:01	04/22/13 17:11	367-12-4	
2,4,6-Tribromophenol (S)	73 %		46-125		1	04/16/13 14:01	04/22/13 17:11	118-79-6	
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Acetone	ND mg/kg		1.0	0.51	1	04/16/13 10:11	04/16/13 17:50	67-64-1	
Allyl chloride	ND mg/kg		0.20	0.042	1	04/16/13 10:11	04/16/13 17:50	107-05-1	
Benzene	ND mg/kg		0.020	0.0048	1	04/16/13 10:11	04/16/13 17:50	71-43-2	
Bromobenzene	ND mg/kg		0.051	0.0057	1	04/16/13 10:11	04/16/13 17:50	108-86-1	
Bromochloromethane	ND mg/kg		0.051	0.017	1	04/16/13 10:11	04/16/13 17:50	74-97-5	
Bromodichloromethane	ND mg/kg		0.051	0.0081	1	04/16/13 10:11	04/16/13 17:50	75-27-4	
Bromoform	ND mg/kg		0.20	0.0095	1	04/16/13 10:11	04/16/13 17:50	75-25-2	
Bromomethane	ND mg/kg		0.51	0.034	1	04/16/13 10:11	04/16/13 17:50	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.26	0.13	1	04/16/13 10:11	04/16/13 17:50	78-93-3	
n-Butylbenzene	ND mg/kg		0.051	0.0067	1	04/16/13 10:11	04/16/13 17:50	104-51-8	
sec-Butylbenzene	ND mg/kg		0.051	0.0043	1	04/16/13 10:11	04/16/13 17:50	135-98-8	
tert-Butylbenzene	ND mg/kg		0.051	0.0053	1	04/16/13 10:11	04/16/13 17:50	98-06-6	
Carbon tetrachloride	ND mg/kg		0.051	0.0098	1	04/16/13 10:11	04/16/13 17:50	56-23-5	
Chlorobenzene	ND mg/kg		0.051	0.0058	1	04/16/13 10:11	04/16/13 17:50	108-90-7	
Chloroethane	ND mg/kg		0.51	0.042	1	04/16/13 10:11	04/16/13 17:50	75-00-3	
Chloroform	ND mg/kg		0.051	0.0049	1	04/16/13 10:11	04/16/13 17:50	67-66-3	
Chloromethane	ND mg/kg		0.20	0.048	1	04/16/13 10:11	04/16/13 17:50	74-87-3	
2-Chlorotoluene	ND mg/kg		0.051	0.0068	1	04/16/13 10:11	04/16/13 17:50	95-49-8	
4-Chlorotoluene	ND mg/kg		0.051	0.0065	1	04/16/13 10:11	04/16/13 17:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.20	0.045	1	04/16/13 10:11	04/16/13 17:50	96-12-8	
Dibromochloromethane	ND mg/kg		0.051	0.0043	1	04/16/13 10:11	04/16/13 17:50	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.051	0.0086	1	04/16/13 10:11	04/16/13 17:50	106-93-4	
Dibromomethane	ND mg/kg		0.051	0.013	1	04/16/13 10:11	04/16/13 17:50	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.051	0.0059	1	04/16/13 10:11	04/16/13 17:50	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.051	0.0041	1	04/16/13 10:11	04/16/13 17:50	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.051	0.0057	1	04/16/13 10:11	04/16/13 17:50	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.051	0.013	1	04/16/13 10:11	04/16/13 17:50	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.051	0.026	1	04/16/13 10:11	04/16/13 17:50	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.051	0.0067	1	04/16/13 10:11	04/16/13 17:50	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.051	0.0074	1	04/16/13 10:11	04/16/13 17:50	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.051	0.0088	1	04/16/13 10:11	04/16/13 17:50	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.051	0.0095	1	04/16/13 10:11	04/16/13 17:50	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.51	0.033	1	04/16/13 10:11	04/16/13 17:50	75-43-4	
1,2-Dichloropropane	ND mg/kg		0.051	0.026	1	04/16/13 10:11	04/16/13 17:50	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.051	0.0072	1	04/16/13 10:11	04/16/13 17:50	142-28-9	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-8-3 Lab ID: 10225292018 Collected: 04/11/13 10:00 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
2,2-Dichloropropane	ND mg/kg	0.20	0.0072	1	04/16/13 10:11	04/16/13 17:50	594-20-7		
1,1-Dichloropropene	ND mg/kg	0.051	0.0070	1	04/16/13 10:11	04/16/13 17:50	563-58-6		
cis-1,3-Dichloropropene	ND mg/kg	0.051	0.0079	1	04/16/13 10:11	04/16/13 17:50	10061-01-5		
trans-1,3-Dichloropropene	ND mg/kg	0.051	0.0086	1	04/16/13 10:11	04/16/13 17:50	10061-02-6		
Diethyl ether (Ethyl ether)	ND mg/kg	0.20	0.044	1	04/16/13 10:11	04/16/13 17:50	60-29-7		
Ethylbenzene	ND mg/kg	0.051	0.0043	1	04/16/13 10:11	04/16/13 17:50	100-41-4		
Hexachloro-1,3-butadiene	ND mg/kg	0.26	0.022	1	04/16/13 10:11	04/16/13 17:50	87-68-3		
Isopropylbenzene (Cumene)	ND mg/kg	0.051	0.0062	1	04/16/13 10:11	04/16/13 17:50	98-82-8		
p-Isopropyltoluene	ND mg/kg	0.051	0.0060	1	04/16/13 10:11	04/16/13 17:50	99-87-6		
Methylene Chloride	ND mg/kg	0.20	0.10	1	04/16/13 10:11	04/16/13 17:50	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND mg/kg	0.26	0.13	1	04/16/13 10:11	04/16/13 17:50	108-10-1		
Methyl-tert-butyl ether	ND mg/kg	0.051	0.0092	1	04/16/13 10:11	04/16/13 17:50	1634-04-4		
Naphthalene	ND mg/kg	0.20	0.0058	1	04/16/13 10:11	04/16/13 17:50	91-20-3		
n-Propylbenzene	ND mg/kg	0.051	0.0051	1	04/16/13 10:11	04/16/13 17:50	103-65-1		
Styrene	ND mg/kg	0.051	0.026	1	04/16/13 10:11	04/16/13 17:50	100-42-5		
1,1,1,2-Tetrachloroethane	ND mg/kg	0.051	0.026	1	04/16/13 10:11	04/16/13 17:50	630-20-6		
1,1,2,2-Tetrachloroethane	ND mg/kg	0.051	0.0095	1	04/16/13 10:11	04/16/13 17:50	79-34-5		
Tetrachloroethene	ND mg/kg	0.051	0.0073	1	04/16/13 10:11	04/16/13 17:50	127-18-4		
Tetrahydrofuran	ND mg/kg	2.0	0.14	1	04/16/13 10:11	04/16/13 17:50	109-99-9		
Toluene	ND mg/kg	0.051	0.0077	1	04/16/13 10:11	04/16/13 17:50	108-88-3		
1,2,3-Trichlorobenzene	ND mg/kg	0.051	0.0077	1	04/16/13 10:11	04/16/13 17:50	87-61-6		
1,2,4-Trichlorobenzene	ND mg/kg	0.051	0.0096	1	04/16/13 10:11	04/16/13 17:50	120-82-1		
1,1,1-Trichloroethane	ND mg/kg	0.051	0.0070	1	04/16/13 10:11	04/16/13 17:50	71-55-6		
1,1,2-Trichloroethane	ND mg/kg	0.051	0.013	1	04/16/13 10:11	04/16/13 17:50	79-00-5		
Trichloroethene	ND mg/kg	0.051	0.0089	1	04/16/13 10:11	04/16/13 17:50	79-01-6		
Trichlorofluoromethane	ND mg/kg	0.20	0.018	1	04/16/13 10:11	04/16/13 17:50	75-69-4		
1,2,3-Trichloropropane	ND mg/kg	0.20	0.014	1	04/16/13 10:11	04/16/13 17:50	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND mg/kg	0.051	0.021	1	04/16/13 10:11	04/16/13 17:50	76-13-1		
1,2,4-Trimethylbenzene	ND mg/kg	0.051	0.0061	1	04/16/13 10:11	04/16/13 17:50	95-63-6		
1,3,5-Trimethylbenzene	ND mg/kg	0.051	0.0061	1	04/16/13 10:11	04/16/13 17:50	108-67-8		
Vinyl chloride	ND mg/kg	0.020	0.0076	1	04/16/13 10:11	04/16/13 17:50	75-01-4		
Xylene (Total)	ND mg/kg	0.15	0.017	1	04/16/13 10:11	04/16/13 17:50	1330-20-7		
Surrogates									
1,2-Dichloroethane-d4 (S)	96 %	57-150		1	04/16/13 10:11	04/16/13 17:50	17060-07-0		
Toluene-d8 (S)	95 %	70-136		1	04/16/13 10:11	04/16/13 17:50	2037-26-5		
4-Bromofluorobenzene (S)	96 %	67-138		1	04/16/13 10:11	04/16/13 17:50	460-00-4		

ANALYTICAL RESULTS

Project: MCES 123840
Pace Project No.: 10225292

Sample: GP-9-5W	Lab ID: 10225292019	Collected: 04/11/13 10:40	Received: 04/12/13 15:40	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	ND ug/L		101	12.1	1	04/17/13 13:46	04/19/13 23:07		
Surrogates									
n-Triacontane (S)	95 %		50-150		1	04/17/13 13:46	04/19/13 23:07		
WIGRO GCV	Analytical Method: WI MOD GRO								
Gasoline Range Organics	ND ug/L		100		1		04/19/13 01:34		
Surrogates									
a,a,a-Trifluorotoluene (S)	100 %		80-125		1		04/19/13 01:34	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND ug/L		20.0	5.5	1	04/20/13 07:52	04/24/13 11:58	7440-38-2	
Barium	325 ug/L		10.0	0.13	1	04/20/13 07:52	04/24/13 11:58	7440-39-3	
Cadmium	ND ug/L		3.0	0.29	1	04/20/13 07:52	04/24/13 11:58	7440-43-9	
Chromium	ND ug/L		10.0	0.72	1	04/20/13 07:52	04/24/13 11:58	7440-47-3	
Lead	ND ug/L		10.0	1.2	1	04/20/13 07:52	04/24/13 11:58	7439-92-1	
Selenium	ND ug/L		20.0	6.1	1	04/20/13 07:52	04/24/13 11:58	7782-49-2	
Silver	ND ug/L		10.0	0.96	1	04/20/13 07:52	04/24/13 11:58	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND ug/L		0.20	0.030	1	04/19/13 09:56	04/22/13 13:41	7439-97-6	
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3520								
Phenol	ND ug/L		10.2	1.1	1	04/18/13 14:29	04/22/13 17:15	108-95-2	
bis(2-Chloroethyl) ether	ND ug/L		10.2	1.1	1	04/18/13 14:29	04/22/13 17:15	111-44-4	
2-Chlorophenol	ND ug/L		10.2	1.1	1	04/18/13 14:29	04/22/13 17:15	95-57-8	
1,3-Dichlorobenzene	ND ug/L		10.2	1.2	1	04/18/13 14:29	04/22/13 17:15	541-73-1	
1,4-Dichlorobenzene	ND ug/L		10.2	1.1	1	04/18/13 14:29	04/22/13 17:15	106-46-7	
Benzyl alcohol	ND ug/L		10.2	1.2	1	04/18/13 14:29	04/22/13 17:15	100-51-6	
1,2-Dichlorobenzene	ND ug/L		10.2	1.2	1	04/18/13 14:29	04/22/13 17:15	95-50-1	
2-Methylphenol(o-Cresol)	ND ug/L		10.2	1.0	1	04/18/13 14:29	04/22/13 17:15	95-48-7	
bis(2-Chloroisopropyl) ether	ND ug/L		10.2	1.2	1	04/18/13 14:29	04/22/13 17:15	108-60-1	
3&4-Methylphenol	ND ug/L		20.4	1.0	1	04/18/13 14:29	04/22/13 17:15		
N-Nitroso-di-n-propylamine	ND ug/L		10.2	1.1	1	04/18/13 14:29	04/22/13 17:15	621-64-7	
Hexachloroethane	ND ug/L		10.2	1.4	1	04/18/13 14:29	04/22/13 17:15	67-72-1	
Nitrobenzene	ND ug/L		10.2	1.1	1	04/18/13 14:29	04/22/13 17:15	98-95-3	
Isophorone	ND ug/L		10.2	0.86	1	04/18/13 14:29	04/22/13 17:15	78-59-1	
2-Nitrophenol	ND ug/L		10.2	0.97	1	04/18/13 14:29	04/22/13 17:15	88-75-5	
2,4-Dimethylphenol	ND ug/L		10.2	3.4	1	04/18/13 14:29	04/22/13 17:15	105-67-9	
Benzoic acid	ND ug/L		51.0	25.5	1	04/18/13 14:29	04/22/13 17:15	65-85-0	CL
bis(2-Chloroethoxy)methane	ND ug/L		10.2	0.92	1	04/18/13 14:29	04/22/13 17:15	111-91-1	
2,4-Dichlorophenol	ND ug/L		10.2	0.88	1	04/18/13 14:29	04/22/13 17:15	120-83-2	
1,2,4-Trichlorobenzene	ND ug/L		10.2	1.1	1	04/18/13 14:29	04/22/13 17:15	120-82-1	
Naphthalene	ND ug/L		10.2	1.1	1	04/18/13 14:29	04/22/13 17:15	91-20-3	
4-Chloroaniline	ND ug/L		10.2	1.6	1	04/18/13 14:29	04/22/13 17:15	106-47-8	SS
Hexachloro-1,3-butadiene	ND ug/L		10.2	1.3	1	04/18/13 14:29	04/22/13 17:15	87-68-3	
4-Chloro-3-methylphenol	ND ug/L		10.2	0.82	1	04/18/13 14:29	04/22/13 17:15	59-50-7	

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ANALYTICAL RESULTS

Project: MCES 123840
Pace Project No.: 10225292

Sample: GP-9-5W	Lab ID: 10225292019	Collected: 04/11/13 10:40	Received: 04/12/13 15:40	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3520							
2-Methylnaphthalene	ND ug/L		10.2	0.90	1	04/18/13 14:29	04/22/13 17:15	91-57-6	
2,4,6-Trichlorophenol	ND ug/L		10.2	0.87	1	04/18/13 14:29	04/22/13 17:15	88-06-2	
2,4,5-Trichlorophenol	ND ug/L		10.2	0.82	1	04/18/13 14:29	04/22/13 17:15	95-95-4	
2-Chloronaphthalene	ND ug/L		10.2	0.80	1	04/18/13 14:29	04/22/13 17:15	91-58-7	
2-Nitroaniline	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	88-74-4	
Dimethylphthalate	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	131-11-3	
Acenaphthylene	ND ug/L		10.2	0.82	1	04/18/13 14:29	04/22/13 17:15	208-96-8	
2,6-Dinitrotoluene	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	606-20-2	
3-Nitroaniline	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	99-09-2	
Acenaphthene	ND ug/L		10.2	0.86	1	04/18/13 14:29	04/22/13 17:15	83-32-9	
2,4-Dinitrophenol	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	51-28-5	
4-Nitrophenol	ND ug/L		10.2	2.0	1	04/18/13 14:29	04/22/13 17:15	100-02-7	
Dibenzofuran	ND ug/L		10.2	0.58	1	04/18/13 14:29	04/22/13 17:15	132-64-9	
2,4-Dinitrotoluene	ND ug/L		10.2	0.82	1	04/18/13 14:29	04/22/13 17:15	121-14-2	
Diethylphthalate	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	84-66-2	
4-Chlorophenylphenyl ether	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	7005-72-3	
Fluorene	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	86-73-7	
4-Nitroaniline	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	100-01-6	
4,6-Dinitro-2-methylphenol	ND ug/L		10.2	4.2	1	04/18/13 14:29	04/22/13 17:15	534-52-1	
N-Nitrosodiphenylamine	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	86-30-6	
4-Bromophenylphenyl ether	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	101-55-3	
Hexachlorobenzene	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	118-74-1	
Pentachlorophenol	ND ug/L		20.4	10.2	1	04/18/13 14:29	04/22/13 17:15	87-86-5	
Phenanthrone	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	85-01-8	
Anthracene	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	120-12-7	
Di-n-butylphthalate	ND ug/L		10.2	1.1	1	04/18/13 14:29	04/22/13 17:15	84-74-2	
Fluoranthene	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	206-44-0	
Pyrene	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	129-00-0	
Butylbenzylphthalate	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	85-68-7	
3,3'-Dichlorobenzidine	ND ug/L		10.2	1.2	1	04/18/13 14:29	04/22/13 17:15	91-94-1	
Benzo(a)anthracene	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	56-55-3	
Chrysene	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	218-01-9	
bis(2-Ethylhexyl)phthalate	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	117-81-7	
Di-n-octylphthalate	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	117-84-0	
Benzo(b)fluoranthene	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	205-99-2	
Benzo(k)fluoranthene	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	207-08-9	
Benzo(a)pyrene	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	50-32-8	
Indeno(1,2,3-cd)pyrene	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	193-39-5	
Dibenz(a,h)anthracene	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	53-70-3	
Benzo(g,h,i)perylene	ND ug/L		10.2	5.1	1	04/18/13 14:29	04/22/13 17:15	191-24-2	
Surrogates									
Nitrobenzene-d5 (S)	70 %	60-125		1	04/18/13 14:29	04/22/13 17:15	4165-60-0		
2-Fluorobiphenyl (S)	70 %	60-125		1	04/18/13 14:29	04/22/13 17:15	321-60-8		
Terphenyl-d14 (S)	69 %	56-125		1	04/18/13 14:29	04/22/13 17:15	1718-51-0		
Phenol-d6 (S)	72 %	56-125		1	04/18/13 14:29	04/22/13 17:15	13127-88-3		
2-Fluorophenol (S)	69 %	53-125		1	04/18/13 14:29	04/22/13 17:15	367-12-4		

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ANALYTICAL RESULTS

Project: MCES 123840
Pace Project No.: 10225292

Sample: GP-9-5W	Lab ID: 10225292019	Collected: 04/11/13 10:40	Received: 04/12/13 15:40	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3520								
Surrogates									
2,4,6-Tribromophenol (S)	88 %		55-125		1	04/18/13 14:29	04/22/13 17:15	118-79-6	
8260 VOC	Analytical Method: EPA 8260								
Acetone	ND ug/L		20.0	10.0	1		04/23/13 03:52	67-64-1	
Allyl chloride	ND ug/L		4.0	1.8	1		04/23/13 03:52	107-05-1	
Benzene	ND ug/L		1.0	0.062	1		04/23/13 03:52	71-43-2	
Bromobenzene	ND ug/L		1.0	0.086	1		04/23/13 03:52	108-86-1	
Bromoform	ND ug/L		1.0	0.32	1		04/23/13 03:52	74-97-5	
Bromochloromethane	ND ug/L		1.0	0.11	1		04/23/13 03:52	75-27-4	
Bromodichloromethane	ND ug/L		4.0	0.068	1		04/23/13 03:52	75-25-2	
Bromomethane	ND ug/L		4.0	0.36	1		04/23/13 03:52	74-83-9	L3
2-Butanone (MEK)	ND ug/L		5.0	2.5	1		04/23/13 03:52	78-93-3	
n-Butylbenzene	ND ug/L		1.0	0.15	1		04/23/13 03:52	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	0.10	1		04/23/13 03:52	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	0.10	1		04/23/13 03:52	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	0.16	1		04/23/13 03:52	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.10	1		04/23/13 03:52	108-90-7	
Chloroethane	ND ug/L		1.0	0.22	1		04/23/13 03:52	75-00-3	
Chloroform	ND ug/L		1.0	0.14	1		04/23/13 03:52	67-66-3	
Chloromethane	ND ug/L		4.0	0.41	1		04/23/13 03:52	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.50	1		04/23/13 03:52	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.068	1		04/23/13 03:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	0.62	1		04/23/13 03:52	96-12-8	
Dibromochloromethane	ND ug/L		1.0	0.10	1		04/23/13 03:52	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	0.091	1		04/23/13 03:52	106-93-4	
Dibromomethane	ND ug/L		4.0	0.21	1		04/23/13 03:52	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.36	1		04/23/13 03:52	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.11	1		04/23/13 03:52	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.064	1		04/23/13 03:52	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.20	1		04/23/13 03:52	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.11	1		04/23/13 03:52	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.37	1		04/23/13 03:52	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.19	1		04/23/13 03:52	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.085	1		04/23/13 03:52	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.15	1		04/23/13 03:52	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	0.11	1		04/23/13 03:52	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	0.27	1		04/23/13 03:52	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.081	1		04/23/13 03:52	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	0.15	1		04/23/13 03:52	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.35	1		04/23/13 03:52	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	0.090	1		04/23/13 03:52	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	0.37	1		04/23/13 03:52	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	2.0	1		04/23/13 03:52	60-29-7	
Ethylbenzene	ND ug/L		1.0	0.081	1		04/23/13 03:52	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	0.19	1		04/23/13 03:52	87-68-3	

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ANALYTICAL RESULTS

Project: MCES 123840
Pace Project No.: 10225292

Sample: GP-9-5W	Lab ID: 10225292019	Collected: 04/11/13 10:40	Received: 04/12/13 15:40	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	ND ug/L		1.0	0.076	1		04/23/13 03:52	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	0.086	1		04/23/13 03:52	99-87-6	
Methylene Chloride	ND ug/L		4.0	2.0	1		04/23/13 03:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	2.5	1		04/23/13 03:52	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	0.088	1		04/23/13 03:52	1634-04-4	
Naphthalene	ND ug/L		4.0	0.068	1		04/23/13 03:52	91-20-3	
n-Propylbenzene	ND ug/L		1.0	0.078	1		04/23/13 03:52	103-65-1	
Styrene	ND ug/L		1.0	0.060	1		04/23/13 03:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	0.36	1		04/23/13 03:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.097	1		04/23/13 03:52	79-34-5	
Tetrachloroethene	ND ug/L		1.0	0.13	1		04/23/13 03:52	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	0.97	1		04/23/13 03:52	109-99-9	
Toluene	ND ug/L		1.0	0.077	1		04/23/13 03:52	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.13	1		04/23/13 03:52	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.25	1		04/23/13 03:52	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	0.19	1		04/23/13 03:52	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.15	1		04/23/13 03:52	79-00-5	
Trichloroethene	ND ug/L		1.0	0.083	1		04/23/13 03:52	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.13	1		04/23/13 03:52	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	0.33	1		04/23/13 03:52	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	0.18	1		04/23/13 03:52	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	0.071	1		04/23/13 03:52	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	0.087	1		04/23/13 03:52	108-67-8	
Vinyl chloride	ND ug/L		0.40	0.16	1		04/23/13 03:52	75-01-4	
Xylene (Total)	ND ug/L		3.0	0.22	1		04/23/13 03:52	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	101 %		75-125		1		04/23/13 03:52	17060-07-0	
Toluene-d8 (S)	99 %		75-125		1		04/23/13 03:52	2037-26-5	
4-Bromofluorobenzene (S)	97 %		75-125		1		04/23/13 03:52	460-00-4	

ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-9-2 Lab ID: 10225292020 Collected: 04/11/13 10:45 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	ND mg/kg		8.3	0.91	1	04/17/13 09:12	04/21/13 14:47		
Surrogates									
n-Triacontane (S)	74 %		50-150		1	04/17/13 09:12	04/21/13 14:47		
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Gasoline Range Organics	ND mg/kg		5.3		1	04/18/13 09:53	04/20/13 02:59		
Surrogates									
a,a,a-Trifluorotoluene (S)	104 %		80-125		1	04/18/13 09:53	04/20/13 02:59	98-08-8	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	4.1 mg/kg		0.90	0.15	1	04/19/13 07:37	04/23/13 12:46	7440-38-2	
Barium	20.8 mg/kg		0.45	0.026	1	04/19/13 07:37	04/23/13 12:46	7440-39-3	
Cadmium	ND mg/kg		0.14	0.068	1	04/19/13 07:37	04/23/13 12:46	7440-43-9	
Chromium	3.7 mg/kg		0.45	0.069	1	04/19/13 07:37	04/23/13 12:46	7440-47-3	
Lead	ND mg/kg		0.90	0.065	1	04/19/13 07:37	04/23/13 12:46	7439-92-1	
Selenium	ND mg/kg		0.68	0.22	1	04/19/13 07:37	04/23/13 12:46	7782-49-2	
Silver	ND mg/kg		0.45	0.031	1	04/19/13 07:37	04/24/13 10:18	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	ND mg/kg		0.020	0.0061	1	04/19/13 07:56	04/22/13 13:21	7439-97-6	
Dry Weight Analytical Method: ASTM D2974									
Percent Moisture	5.2 %		0.10	0.10	1		04/15/13 00:00		
8270 MSSV Analytical Method: EPA 8270 Preparation Method: EPA 3550									
Acenaphthene	ND mg/kg		0.35	0.041	1	04/16/13 14:01	04/22/13 11:43	83-32-9	
Acenaphthylene	ND mg/kg		0.35	0.040	1	04/16/13 14:01	04/22/13 11:43	208-96-8	
Anthracene	ND mg/kg		0.35	0.045	1	04/16/13 14:01	04/22/13 11:43	120-12-7	
Benzidine	ND mg/kg		1.7	0.84	1	04/16/13 14:01	04/22/13 11:43	92-87-5	L2,SS
Benzo(a)anthracene	ND mg/kg		0.35	0.049	1	04/16/13 14:01	04/22/13 11:43	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.35	0.050	1	04/16/13 14:01	04/22/13 11:43	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.35	0.050	1	04/16/13 14:01	04/22/13 11:43	205-99-2	
Benzo(g,h,i)perylene	ND mg/kg		0.35	0.053	1	04/16/13 14:01	04/22/13 11:43	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.35	0.048	1	04/16/13 14:01	04/22/13 11:43	207-08-9	
Benzoic acid	ND mg/kg		1.8	0.48	1	04/16/13 14:01	04/22/13 11:43	65-85-0	
Benzyl alcohol	ND mg/kg		0.35	0.051	1	04/16/13 14:01	04/22/13 11:43	100-51-6	
4-Bromophenylphenyl ether	ND mg/kg		0.35	0.053	1	04/16/13 14:01	04/22/13 11:43	101-55-3	
Butylbenzylphthalate	ND mg/kg		0.35	0.047	1	04/16/13 14:01	04/22/13 11:43	85-68-7	
4-Chloro-3-methylphenol	ND mg/kg		0.35	0.041	1	04/16/13 14:01	04/22/13 11:43	59-50-7	
4-Chloroaniline	ND mg/kg		0.35	0.074	1	04/16/13 14:01	04/22/13 11:43	106-47-8	CL
bis(2-Chloroethoxy)methane	ND mg/kg		0.35	0.059	1	04/16/13 14:01	04/22/13 11:43	111-91-1	2M
bis(2-Chloroethyl) ether	ND mg/kg		0.35	0.071	1	04/16/13 14:01	04/22/13 11:43	111-44-4	
bis(2-Chloroisopropyl) ether	ND mg/kg		0.35	0.083	1	04/16/13 14:01	04/22/13 11:43	108-60-1	
2-Chloronaphthalene	ND mg/kg		0.35	0.042	1	04/16/13 14:01	04/22/13 11:43	91-58-7	
2-Chlorophenol	ND mg/kg		0.35	0.076	1	04/16/13 14:01	04/22/13 11:43	95-57-8	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-9-2 Lab ID: 10225292020 Collected: 04/11/13 10:45 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3550							
4-Chlorophenylphenyl ether	ND mg/kg	0.35	0.047	1	04/16/13 14:01	04/22/13 11:43	7005-72-3		
Chrysene	ND mg/kg	0.35	0.050	1	04/16/13 14:01	04/22/13 11:43	218-01-9		
Dibenz(a,h)anthracene	ND mg/kg	0.35	0.054	1	04/16/13 14:01	04/22/13 11:43	53-70-3		
Dibenzofuran	ND mg/kg	0.35	0.042	1	04/16/13 14:01	04/22/13 11:43	132-64-9		
1,2-Dichlorobenzene	ND mg/kg	0.35	0.074	1	04/16/13 14:01	04/22/13 11:43	95-50-1		
1,3-Dichlorobenzene	ND mg/kg	0.35	0.079	1	04/16/13 14:01	04/22/13 11:43	541-73-1		
1,4-Dichlorobenzene	ND mg/kg	0.35	0.074	1	04/16/13 14:01	04/22/13 11:43	106-46-7		
3,3'-Dichlorobenzidine	ND mg/kg	0.35	0.17	1	04/16/13 14:01	04/22/13 11:43	91-94-1		
2,4-Dichlorophenol	ND mg/kg	0.35	0.052	1	04/16/13 14:01	04/22/13 11:43	120-83-2		
Diethylphthalate	ND mg/kg	0.35	0.046	1	04/16/13 14:01	04/22/13 11:43	84-66-2		
2,4-Dimethylphenol	ND mg/kg	0.35	0.057	1	04/16/13 14:01	04/22/13 11:43	105-67-9		
Dimethylphthalate	ND mg/kg	0.35	0.048	1	04/16/13 14:01	04/22/13 11:43	131-11-3		
Di-n-butylphthalate	ND mg/kg	0.35	0.036	1	04/16/13 14:01	04/22/13 11:43	84-74-2		
4,6-Dinitro-2-methylphenol	ND mg/kg	1.8	0.29	1	04/16/13 14:01	04/22/13 11:43	534-52-1		
2,4-Dinitrophenol	ND mg/kg	0.35	0.050	1	04/16/13 14:01	04/22/13 11:43	51-28-5		
2,4-Dinitrotoluene	ND mg/kg	0.35	0.058	1	04/16/13 14:01	04/22/13 11:43	121-14-2		
2,6-Dinitrotoluene	ND mg/kg	0.35	0.048	1	04/16/13 14:01	04/22/13 11:43	606-20-2		
Di-n-octylphthalate	ND mg/kg	0.35	0.051	1	04/16/13 14:01	04/22/13 11:43	117-84-0		
bis(2-Ethylhexyl)phthalate	ND mg/kg	0.35	0.081	1	04/16/13 14:01	04/22/13 11:43	117-81-7		
Fluoranthene	ND mg/kg	0.35	0.042	1	04/16/13 14:01	04/22/13 11:43	206-44-0		
Fluorene	ND mg/kg	0.35	0.045	1	04/16/13 14:01	04/22/13 11:43	86-73-7		
Hexachloro-1,3-butadiene	ND mg/kg	0.35	0.086	1	04/16/13 14:01	04/22/13 11:43	87-68-3		
Hexachlorobenzene	ND mg/kg	0.35	0.049	1	04/16/13 14:01	04/22/13 11:43	118-74-1		
Hexachlorocyclopentadiene	ND mg/kg	0.35	0.17	1	04/16/13 14:01	04/22/13 11:43	77-47-4		
Hexachloroethane	ND mg/kg	0.35	0.082	1	04/16/13 14:01	04/22/13 11:43	67-72-1		
Indeno(1,2,3-cd)pyrene	ND mg/kg	0.35	0.051	1	04/16/13 14:01	04/22/13 11:43	193-39-5		
Isophorone	ND mg/kg	0.35	0.042	1	04/16/13 14:01	04/22/13 11:43	78-59-1		
2-Methylnaphthalene	ND mg/kg	0.35	0.051	1	04/16/13 14:01	04/22/13 11:43	91-57-6		
2-Methylphenol(o-Cresol)	ND mg/kg	0.35	0.053	1	04/16/13 14:01	04/22/13 11:43	95-48-7		
3&4-Methylphenol	ND mg/kg	0.69	0.047	1	04/16/13 14:01	04/22/13 11:43			
Naphthalene	ND mg/kg	0.35	0.067	1	04/16/13 14:01	04/22/13 11:43	91-20-3		
2-Nitroaniline	ND mg/kg	0.35	0.048	1	04/16/13 14:01	04/22/13 11:43	88-74-4		
3-Nitroaniline	ND mg/kg	0.35	0.068	1	04/16/13 14:01	04/22/13 11:43	99-09-2		
4-Nitroaniline	ND mg/kg	0.35	0.051	1	04/16/13 14:01	04/22/13 11:43	100-01-6		
Nitrobenzene	ND mg/kg	0.35	0.070	1	04/16/13 14:01	04/22/13 11:43	98-95-3		
2-Nitrophenol	ND mg/kg	0.35	0.057	1	04/16/13 14:01	04/22/13 11:43	88-75-5		
4-Nitrophenol	ND mg/kg	0.35	0.066	1	04/16/13 14:01	04/22/13 11:43	100-02-7		
N-Nitroso-di-n-propylamine	ND mg/kg	0.35	0.054	1	04/16/13 14:01	04/22/13 11:43	621-64-7		
N-Nitrosodiphenylamine	ND mg/kg	0.35	0.050	1	04/16/13 14:01	04/22/13 11:43	86-30-6		
Pentachlorophenol	ND mg/kg	0.70	0.35	1	04/16/13 14:01	04/22/13 11:43	87-86-5		
Phenanthrene	ND mg/kg	0.35	0.046	1	04/16/13 14:01	04/22/13 11:43	85-01-8		
Phenol	ND mg/kg	0.35	0.063	1	04/16/13 14:01	04/22/13 11:43	108-95-2		
Pyrene	ND mg/kg	0.35	0.048	1	04/16/13 14:01	04/22/13 11:43	129-00-0		
1,2,4-Trichlorobenzene	ND mg/kg	0.35	0.072	1	04/16/13 14:01	04/22/13 11:43	120-82-1		
2,4,5-Trichlorophenol	ND mg/kg	0.35	0.059	1	04/16/13 14:01	04/22/13 11:43	95-95-4		

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-9-2 Lab ID: 10225292020 Collected: 04/11/13 10:45 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
2,4,6-Trichlorophenol	ND mg/kg		0.35	0.051	1	04/16/13 14:01	04/22/13 11:43	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	65 %		30-127		1	04/16/13 14:01	04/22/13 11:43	4165-60-0	
2-Fluorobiphenyl (S)	68 %		42-125		1	04/16/13 14:01	04/22/13 11:43	321-60-8	
Terphenyl-d14 (S)	81 %		51-125		1	04/16/13 14:01	04/22/13 11:43	1718-51-0	
Phenol-d6 (S)	70 %		30-125		1	04/16/13 14:01	04/22/13 11:43	13127-88-3	
2-Fluorophenol (S)	64 %		30-127		1	04/16/13 14:01	04/22/13 11:43	367-12-4	
2,4,6-Tribromophenol (S)	74 %		46-125		1	04/16/13 14:01	04/22/13 11:43	118-79-6	
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Acetone	ND mg/kg		1.1	0.53	1	04/16/13 10:11	04/16/13 18:07	67-64-1	
Allyl chloride	ND mg/kg		0.21	0.044	1	04/16/13 10:11	04/16/13 18:07	107-05-1	
Benzene	ND mg/kg		0.021	0.0050	1	04/16/13 10:11	04/16/13 18:07	71-43-2	
Bromobenzene	ND mg/kg		0.053	0.0059	1	04/16/13 10:11	04/16/13 18:07	108-86-1	
Bromochloromethane	ND mg/kg		0.053	0.018	1	04/16/13 10:11	04/16/13 18:07	74-97-5	
Bromodichloromethane	ND mg/kg		0.053	0.0084	1	04/16/13 10:11	04/16/13 18:07	75-27-4	
Bromoform	ND mg/kg		0.21	0.0098	1	04/16/13 10:11	04/16/13 18:07	75-25-2	
Bromomethane	ND mg/kg		0.53	0.036	1	04/16/13 10:11	04/16/13 18:07	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.26	0.13	1	04/16/13 10:11	04/16/13 18:07	78-93-3	
n-Butylbenzene	ND mg/kg		0.053	0.0069	1	04/16/13 10:11	04/16/13 18:07	104-51-8	
sec-Butylbenzene	ND mg/kg		0.053	0.0044	1	04/16/13 10:11	04/16/13 18:07	135-98-8	
tert-Butylbenzene	ND mg/kg		0.053	0.0055	1	04/16/13 10:11	04/16/13 18:07	98-06-6	
Carbon tetrachloride	ND mg/kg		0.053	0.010	1	04/16/13 10:11	04/16/13 18:07	56-23-5	
Chlorobenzene	ND mg/kg		0.053	0.0060	1	04/16/13 10:11	04/16/13 18:07	108-90-7	
Chloroethane	ND mg/kg		0.53	0.043	1	04/16/13 10:11	04/16/13 18:07	75-00-3	
Chloroform	ND mg/kg		0.053	0.0051	1	04/16/13 10:11	04/16/13 18:07	67-66-3	
Chloromethane	ND mg/kg		0.21	0.050	1	04/16/13 10:11	04/16/13 18:07	74-87-3	
2-Chlorotoluene	ND mg/kg		0.053	0.0071	1	04/16/13 10:11	04/16/13 18:07	95-49-8	
4-Chlorotoluene	ND mg/kg		0.053	0.0068	1	04/16/13 10:11	04/16/13 18:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.21	0.047	1	04/16/13 10:11	04/16/13 18:07	96-12-8	
Dibromochloromethane	ND mg/kg		0.053	0.0044	1	04/16/13 10:11	04/16/13 18:07	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.053	0.0089	1	04/16/13 10:11	04/16/13 18:07	106-93-4	
Dibromomethane	ND mg/kg		0.053	0.013	1	04/16/13 10:11	04/16/13 18:07	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.053	0.0061	1	04/16/13 10:11	04/16/13 18:07	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.053	0.0043	1	04/16/13 10:11	04/16/13 18:07	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.053	0.0059	1	04/16/13 10:11	04/16/13 18:07	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.053	0.013	1	04/16/13 10:11	04/16/13 18:07	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.053	0.026	1	04/16/13 10:11	04/16/13 18:07	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.053	0.0070	1	04/16/13 10:11	04/16/13 18:07	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.053	0.0077	1	04/16/13 10:11	04/16/13 18:07	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.053	0.0091	1	04/16/13 10:11	04/16/13 18:07	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.053	0.0098	1	04/16/13 10:11	04/16/13 18:07	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.53	0.034	1	04/16/13 10:11	04/16/13 18:07	75-43-4	
1,2-Dichloropropane	ND mg/kg		0.053	0.026	1	04/16/13 10:11	04/16/13 18:07	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.053	0.0075	1	04/16/13 10:11	04/16/13 18:07	142-28-9	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-9-2 Lab ID: 10225292020 Collected: 04/11/13 10:45 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
2,2-Dichloropropane	ND mg/kg		0.21	0.0075	1	04/16/13 10:11	04/16/13 18:07	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.053	0.0073	1	04/16/13 10:11	04/16/13 18:07	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.053	0.0082	1	04/16/13 10:11	04/16/13 18:07	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.053	0.0089	1	04/16/13 10:11	04/16/13 18:07	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.21	0.046	1	04/16/13 10:11	04/16/13 18:07	60-29-7	
Ethylbenzene	ND mg/kg		0.053	0.0044	1	04/16/13 10:11	04/16/13 18:07	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.26	0.023	1	04/16/13 10:11	04/16/13 18:07	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.053	0.0064	1	04/16/13 10:11	04/16/13 18:07	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.053	0.0063	1	04/16/13 10:11	04/16/13 18:07	99-87-6	
Methylene Chloride	ND mg/kg		0.21	0.11	1	04/16/13 10:11	04/16/13 18:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.26	0.13	1	04/16/13 10:11	04/16/13 18:07	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.053	0.0095	1	04/16/13 10:11	04/16/13 18:07	1634-04-4	
Naphthalene	ND mg/kg		0.21	0.0060	1	04/16/13 10:11	04/16/13 18:07	91-20-3	
n-Propylbenzene	ND mg/kg		0.053	0.0053	1	04/16/13 10:11	04/16/13 18:07	103-65-1	
Styrene	ND mg/kg		0.053	0.026	1	04/16/13 10:11	04/16/13 18:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.053	0.026	1	04/16/13 10:11	04/16/13 18:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.053	0.0098	1	04/16/13 10:11	04/16/13 18:07	79-34-5	
Tetrachloroethene	ND mg/kg		0.053	0.0075	1	04/16/13 10:11	04/16/13 18:07	127-18-4	
Tetrahydrofuran	ND mg/kg		2.1	0.15	1	04/16/13 10:11	04/16/13 18:07	109-99-9	
Toluene	ND mg/kg		0.053	0.0080	1	04/16/13 10:11	04/16/13 18:07	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.053	0.0079	1	04/16/13 10:11	04/16/13 18:07	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.053	0.010	1	04/16/13 10:11	04/16/13 18:07	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.053	0.0073	1	04/16/13 10:11	04/16/13 18:07	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.053	0.013	1	04/16/13 10:11	04/16/13 18:07	79-00-5	
Trichloroethene	ND mg/kg		0.053	0.0092	1	04/16/13 10:11	04/16/13 18:07	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.21	0.019	1	04/16/13 10:11	04/16/13 18:07	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.21	0.014	1	04/16/13 10:11	04/16/13 18:07	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.053	0.021	1	04/16/13 10:11	04/16/13 18:07	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.053	0.0063	1	04/16/13 10:11	04/16/13 18:07	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.053	0.0063	1	04/16/13 10:11	04/16/13 18:07	108-67-8	
Vinyl chloride	ND mg/kg		0.021	0.0079	1	04/16/13 10:11	04/16/13 18:07	75-01-4	
Xylene (Total)	ND mg/kg		0.16	0.018	1	04/16/13 10:11	04/16/13 18:07	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	97 %	57-150			1	04/16/13 10:11	04/16/13 18:07	17060-07-0	
Toluene-d8 (S)	95 %	70-136			1	04/16/13 10:11	04/16/13 18:07	2037-26-5	
4-Bromofluorobenzene (S)	97 %	67-138			1	04/16/13 10:11	04/16/13 18:07	460-00-4	

ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-10-7 Lab ID: 10225292021 Collected: 04/11/13 11:45 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	ND mg/kg		8.8	0.97	1	04/17/13 09:12	04/21/13 14:40		
Surrogates									
n-Triacontane (S)	83 %		50-150		1	04/17/13 09:12	04/21/13 14:40		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	ND mg/kg		5.2		1	04/18/13 09:53	04/20/13 03:18		
Surrogates									
a,a,a-Trifluorotoluene (S)	102 %		80-125		1	04/18/13 09:53	04/20/13 03:18	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	1.3 mg/kg		0.92	0.15	1	04/19/13 07:37	04/23/13 12:53	7440-38-2	
Barium	21.3 mg/kg		0.46	0.027	1	04/19/13 07:37	04/23/13 12:53	7440-39-3	
Cadmium	ND mg/kg		0.14	0.069	1	04/19/13 07:37	04/23/13 12:53	7440-43-9	
Chromium	13.1 mg/kg		0.46	0.070	1	04/19/13 07:37	04/23/13 12:53	7440-47-3	
Lead	3.8 mg/kg		0.92	0.066	1	04/19/13 07:37	04/23/13 12:53	7439-92-1	
Selenium	ND mg/kg		0.69	0.23	1	04/19/13 07:37	04/23/13 12:53	7782-49-2	
Silver	ND mg/kg		0.46	0.031	1	04/19/13 07:37	04/24/13 10:22	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.020	0.0061	1	04/19/13 07:56	04/22/13 13:23	7439-97-6	
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	7.2 %		0.10	0.10	1		04/15/13 00:00		
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
Acenaphthene	ND mg/kg		0.36	0.042	1	04/16/13 14:01	04/22/13 12:10	83-32-9	
Acenaphthylene	ND mg/kg		0.36	0.041	1	04/16/13 14:01	04/22/13 12:10	208-96-8	
Anthracene	ND mg/kg		0.36	0.046	1	04/16/13 14:01	04/22/13 12:10	120-12-7	
Benzidine	ND mg/kg		1.7	0.86	1	04/16/13 14:01	04/22/13 12:10	92-87-5	L2,SS
Benzo(a)anthracene	ND mg/kg		0.36	0.050	1	04/16/13 14:01	04/22/13 12:10	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.36	0.051	1	04/16/13 14:01	04/22/13 12:10	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.36	0.051	1	04/16/13 14:01	04/22/13 12:10	205-99-2	
Benzo(g,h,i)perylene	ND mg/kg		0.36	0.054	1	04/16/13 14:01	04/22/13 12:10	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.36	0.049	1	04/16/13 14:01	04/22/13 12:10	207-08-9	
Benzoic acid	ND mg/kg		1.8	0.49	1	04/16/13 14:01	04/22/13 12:10	65-85-0	
Benzyl alcohol	ND mg/kg		0.36	0.052	1	04/16/13 14:01	04/22/13 12:10	100-51-6	
4-Bromophenylphenyl ether	ND mg/kg		0.36	0.054	1	04/16/13 14:01	04/22/13 12:10	101-55-3	
Butylbenzylphthalate	ND mg/kg		0.36	0.048	1	04/16/13 14:01	04/22/13 12:10	85-68-7	
4-Chloro-3-methylphenol	ND mg/kg		0.36	0.042	1	04/16/13 14:01	04/22/13 12:10	59-50-7	
4-Chloroaniline	ND mg/kg		0.36	0.076	1	04/16/13 14:01	04/22/13 12:10	106-47-8	CL
bis(2-Chloroethoxy)methane	ND mg/kg		0.36	0.060	1	04/16/13 14:01	04/22/13 12:10	111-91-1	2M
bis(2-Chloroethyl) ether	ND mg/kg		0.36	0.073	1	04/16/13 14:01	04/22/13 12:10	111-44-4	
bis(2-Chloroisopropyl) ether	ND mg/kg		0.36	0.085	1	04/16/13 14:01	04/22/13 12:10	108-60-1	
2-Chloronaphthalene	ND mg/kg		0.36	0.043	1	04/16/13 14:01	04/22/13 12:10	91-58-7	
2-Chlorophenol	ND mg/kg		0.36	0.078	1	04/16/13 14:01	04/22/13 12:10	95-57-8	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-10-7 Lab ID: 10225292021 Collected: 04/11/13 11:45 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3550							
4-Chlorophenylphenyl ether	ND mg/kg		0.36	0.048	1	04/16/13 14:01	04/22/13 12:10	7005-72-3	
Chrysene	ND mg/kg		0.36	0.051	1	04/16/13 14:01	04/22/13 12:10	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.36	0.055	1	04/16/13 14:01	04/22/13 12:10	53-70-3	
Dibenzofuran	ND mg/kg		0.36	0.043	1	04/16/13 14:01	04/22/13 12:10	132-64-9	
1,2-Dichlorobenzene	ND mg/kg		0.36	0.076	1	04/16/13 14:01	04/22/13 12:10	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.36	0.081	1	04/16/13 14:01	04/22/13 12:10	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.36	0.076	1	04/16/13 14:01	04/22/13 12:10	106-46-7	
3,3'-Dichlorobenzidine	ND mg/kg		0.36	0.18	1	04/16/13 14:01	04/22/13 12:10	91-94-1	
2,4-Dichlorophenol	ND mg/kg		0.36	0.053	1	04/16/13 14:01	04/22/13 12:10	120-83-2	
Diethylphthalate	ND mg/kg		0.36	0.047	1	04/16/13 14:01	04/22/13 12:10	84-66-2	
2,4-Dimethylphenol	ND mg/kg		0.36	0.058	1	04/16/13 14:01	04/22/13 12:10	105-67-9	
Dimethylphthalate	ND mg/kg		0.36	0.050	1	04/16/13 14:01	04/22/13 12:10	131-11-3	
Di-n-butylphthalate	ND mg/kg		0.36	0.037	1	04/16/13 14:01	04/22/13 12:10	84-74-2	
4,6-Dinitro-2-methylphenol	ND mg/kg		1.8	0.30	1	04/16/13 14:01	04/22/13 12:10	534-52-1	
2,4-Dinitrophenol	ND mg/kg		0.36	0.051	1	04/16/13 14:01	04/22/13 12:10	51-28-5	
2,4-Dinitrotoluene	ND mg/kg		0.36	0.059	1	04/16/13 14:01	04/22/13 12:10	121-14-2	
2,6-Dinitrotoluene	ND mg/kg		0.36	0.050	1	04/16/13 14:01	04/22/13 12:10	606-20-2	
Di-n-octylphthalate	ND mg/kg		0.36	0.052	1	04/16/13 14:01	04/22/13 12:10	117-84-0	
bis(2-Ethylhexyl)phthalate	ND mg/kg		0.36	0.083	1	04/16/13 14:01	04/22/13 12:10	117-81-7	
Fluoranthene	ND mg/kg		0.36	0.043	1	04/16/13 14:01	04/22/13 12:10	206-44-0	
Fluorene	ND mg/kg		0.36	0.046	1	04/16/13 14:01	04/22/13 12:10	86-73-7	
Hexachloro-1,3-butadiene	ND mg/kg		0.36	0.088	1	04/16/13 14:01	04/22/13 12:10	87-68-3	
Hexachlorobenzene	ND mg/kg		0.36	0.050	1	04/16/13 14:01	04/22/13 12:10	118-74-1	
Hexachlorocyclopentadiene	ND mg/kg		0.36	0.18	1	04/16/13 14:01	04/22/13 12:10	77-47-4	
Hexachloroethane	ND mg/kg		0.36	0.084	1	04/16/13 14:01	04/22/13 12:10	67-72-1	
Indeno(1,2,3-cd)pyrene	ND mg/kg		0.36	0.052	1	04/16/13 14:01	04/22/13 12:10	193-39-5	
Isophorone	ND mg/kg		0.36	0.043	1	04/16/13 14:01	04/22/13 12:10	78-59-1	
2-Methylnaphthalene	ND mg/kg		0.36	0.053	1	04/16/13 14:01	04/22/13 12:10	91-57-6	
2-Methylphenol(o-Cresol)	ND mg/kg		0.36	0.054	1	04/16/13 14:01	04/22/13 12:10	95-48-7	
3&4-Methylphenol	ND mg/kg		0.71	0.048	1	04/16/13 14:01	04/22/13 12:10		
Naphthalene	ND mg/kg		0.36	0.069	1	04/16/13 14:01	04/22/13 12:10	91-20-3	
2-Nitroaniline	ND mg/kg		0.36	0.049	1	04/16/13 14:01	04/22/13 12:10	88-74-4	
3-Nitroaniline	ND mg/kg		0.36	0.070	1	04/16/13 14:01	04/22/13 12:10	99-09-2	
4-Nitroaniline	ND mg/kg		0.36	0.052	1	04/16/13 14:01	04/22/13 12:10	100-01-6	
Nitrobenzene	ND mg/kg		0.36	0.071	1	04/16/13 14:01	04/22/13 12:10	98-95-3	
2-Nitrophenol	ND mg/kg		0.36	0.059	1	04/16/13 14:01	04/22/13 12:10	88-75-5	
4-Nitrophenol	ND mg/kg		0.36	0.067	1	04/16/13 14:01	04/22/13 12:10	100-02-7	
N-Nitroso-di-n-propylamine	ND mg/kg		0.36	0.055	1	04/16/13 14:01	04/22/13 12:10	621-64-7	
N-Nitrosodiphenylamine	ND mg/kg		0.36	0.052	1	04/16/13 14:01	04/22/13 12:10	86-30-6	
Pentachlorophenol	ND mg/kg		0.72	0.36	1	04/16/13 14:01	04/22/13 12:10	87-86-5	
Phenanthrene	ND mg/kg		0.36	0.048	1	04/16/13 14:01	04/22/13 12:10	85-01-8	
Phenol	ND mg/kg		0.36	0.065	1	04/16/13 14:01	04/22/13 12:10	108-95-2	
Pyrene	ND mg/kg		0.36	0.049	1	04/16/13 14:01	04/22/13 12:10	129-00-0	
1,2,4-Trichlorobenzene	ND mg/kg		0.36	0.074	1	04/16/13 14:01	04/22/13 12:10	120-82-1	
2,4,5-Trichlorophenol	ND mg/kg		0.36	0.061	1	04/16/13 14:01	04/22/13 12:10	95-95-4	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-10-7 Lab ID: 10225292021 Collected: 04/11/13 11:45 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
2,4,6-Trichlorophenol	ND mg/kg		0.36	0.053	1	04/16/13 14:01	04/22/13 12:10	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	68 %		30-127		1	04/16/13 14:01	04/22/13 12:10	4165-60-0	
2-Fluorobiphenyl (S)	71 %		42-125		1	04/16/13 14:01	04/22/13 12:10	321-60-8	
Terphenyl-d14 (S)	78 %		51-125		1	04/16/13 14:01	04/22/13 12:10	1718-51-0	
Phenol-d6 (S)	66 %		30-125		1	04/16/13 14:01	04/22/13 12:10	13127-88-3	
2-Fluorophenol (S)	62 %		30-127		1	04/16/13 14:01	04/22/13 12:10	367-12-4	
2,4,6-Tribromophenol (S)	66 %		46-125		1	04/16/13 14:01	04/22/13 12:10	118-79-6	
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Acetone	ND mg/kg		1.1	0.53	1	04/16/13 10:11	04/16/13 18:23	67-64-1	
Allyl chloride	ND mg/kg		0.21	0.044	1	04/16/13 10:11	04/16/13 18:23	107-05-1	
Benzene	ND mg/kg		0.021	0.0050	1	04/16/13 10:11	04/16/13 18:23	71-43-2	
Bromobenzene	ND mg/kg		0.053	0.0060	1	04/16/13 10:11	04/16/13 18:23	108-86-1	
Bromochloromethane	ND mg/kg		0.053	0.018	1	04/16/13 10:11	04/16/13 18:23	74-97-5	
Bromodichloromethane	ND mg/kg		0.053	0.0084	1	04/16/13 10:11	04/16/13 18:23	75-27-4	
Bromoform	ND mg/kg		0.21	0.0099	1	04/16/13 10:11	04/16/13 18:23	75-25-2	
Bromomethane	ND mg/kg		0.53	0.036	1	04/16/13 10:11	04/16/13 18:23	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.27	0.13	1	04/16/13 10:11	04/16/13 18:23	78-93-3	
n-Butylbenzene	ND mg/kg		0.053	0.0069	1	04/16/13 10:11	04/16/13 18:23	104-51-8	
sec-Butylbenzene	ND mg/kg		0.053	0.0045	1	04/16/13 10:11	04/16/13 18:23	135-98-8	
tert-Butylbenzene	ND mg/kg		0.053	0.0055	1	04/16/13 10:11	04/16/13 18:23	98-06-6	
Carbon tetrachloride	ND mg/kg		0.053	0.010	1	04/16/13 10:11	04/16/13 18:23	56-23-5	
Chlorobenzene	ND mg/kg		0.053	0.0061	1	04/16/13 10:11	04/16/13 18:23	108-90-7	
Chloroethane	ND mg/kg		0.53	0.043	1	04/16/13 10:11	04/16/13 18:23	75-00-3	
Chloroform	ND mg/kg		0.053	0.0051	1	04/16/13 10:11	04/16/13 18:23	67-66-3	
Chloromethane	ND mg/kg		0.21	0.050	1	04/16/13 10:11	04/16/13 18:23	74-87-3	
2-Chlorotoluene	ND mg/kg		0.053	0.0071	1	04/16/13 10:11	04/16/13 18:23	95-49-8	
4-Chlorotoluene	ND mg/kg		0.053	0.0068	1	04/16/13 10:11	04/16/13 18:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.21	0.047	1	04/16/13 10:11	04/16/13 18:23	96-12-8	
Dibromochloromethane	ND mg/kg		0.053	0.0045	1	04/16/13 10:11	04/16/13 18:23	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.053	0.0090	1	04/16/13 10:11	04/16/13 18:23	106-93-4	
Dibromomethane	ND mg/kg		0.053	0.013	1	04/16/13 10:11	04/16/13 18:23	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.053	0.0062	1	04/16/13 10:11	04/16/13 18:23	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.053	0.0043	1	04/16/13 10:11	04/16/13 18:23	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.053	0.0060	1	04/16/13 10:11	04/16/13 18:23	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.053	0.013	1	04/16/13 10:11	04/16/13 18:23	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.053	0.027	1	04/16/13 10:11	04/16/13 18:23	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.053	0.0070	1	04/16/13 10:11	04/16/13 18:23	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.053	0.0078	1	04/16/13 10:11	04/16/13 18:23	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.053	0.0091	1	04/16/13 10:11	04/16/13 18:23	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.053	0.0099	1	04/16/13 10:11	04/16/13 18:23	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.53	0.034	1	04/16/13 10:11	04/16/13 18:23	75-43-4	
1,2-Dichloropropane	ND mg/kg		0.053	0.027	1	04/16/13 10:11	04/16/13 18:23	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.053	0.0075	1	04/16/13 10:11	04/16/13 18:23	142-28-9	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-10-7 Lab ID: 10225292021 Collected: 04/11/13 11:45 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
2,2-Dichloropropane	ND mg/kg		0.21	0.0075	1	04/16/13 10:11	04/16/13 18:23	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.053	0.0073	1	04/16/13 10:11	04/16/13 18:23	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.053	0.0082	1	04/16/13 10:11	04/16/13 18:23	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.053	0.0090	1	04/16/13 10:11	04/16/13 18:23	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.21	0.046	1	04/16/13 10:11	04/16/13 18:23	60-29-7	
Ethylbenzene	ND mg/kg		0.053	0.0044	1	04/16/13 10:11	04/16/13 18:23	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.27	0.023	1	04/16/13 10:11	04/16/13 18:23	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.053	0.0064	1	04/16/13 10:11	04/16/13 18:23	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.053	0.0063	1	04/16/13 10:11	04/16/13 18:23	99-87-6	
Methylene Chloride	ND mg/kg		0.21	0.11	1	04/16/13 10:11	04/16/13 18:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.27	0.13	1	04/16/13 10:11	04/16/13 18:23	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.053	0.0096	1	04/16/13 10:11	04/16/13 18:23	1634-04-4	
Naphthalene	ND mg/kg		0.21	0.0060	1	04/16/13 10:11	04/16/13 18:23	91-20-3	
n-Propylbenzene	ND mg/kg		0.053	0.0054	1	04/16/13 10:11	04/16/13 18:23	103-65-1	
Styrene	ND mg/kg		0.053	0.027	1	04/16/13 10:11	04/16/13 18:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.053	0.027	1	04/16/13 10:11	04/16/13 18:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.053	0.0099	1	04/16/13 10:11	04/16/13 18:23	79-34-5	
Tetrachloroethene	ND mg/kg		0.053	0.0076	1	04/16/13 10:11	04/16/13 18:23	127-18-4	
Tetrahydrofuran	ND mg/kg		2.1	0.15	1	04/16/13 10:11	04/16/13 18:23	109-99-9	
Toluene	ND mg/kg		0.053	0.0080	1	04/16/13 10:11	04/16/13 18:23	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.053	0.0080	1	04/16/13 10:11	04/16/13 18:23	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.053	0.010	1	04/16/13 10:11	04/16/13 18:23	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.053	0.0073	1	04/16/13 10:11	04/16/13 18:23	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.053	0.013	1	04/16/13 10:11	04/16/13 18:23	79-00-5	
Trichloroethene	ND mg/kg		0.053	0.0092	1	04/16/13 10:11	04/16/13 18:23	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.21	0.019	1	04/16/13 10:11	04/16/13 18:23	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.21	0.014	1	04/16/13 10:11	04/16/13 18:23	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.053	0.022	1	04/16/13 10:11	04/16/13 18:23	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.053	0.0064	1	04/16/13 10:11	04/16/13 18:23	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.053	0.0063	1	04/16/13 10:11	04/16/13 18:23	108-67-8	
Vinyl chloride	ND mg/kg		0.021	0.0079	1	04/16/13 10:11	04/16/13 18:23	75-01-4	
Xylene (Total)	ND mg/kg		0.16	0.018	1	04/16/13 10:11	04/16/13 18:23	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	96 %	57-150			1	04/16/13 10:11	04/16/13 18:23	17060-07-0	
Toluene-d8 (S)	96 %	70-136			1	04/16/13 10:11	04/16/13 18:23	2037-26-5	
4-Bromofluorobenzene (S)	99 %	67-138			1	04/16/13 10:11	04/16/13 18:23	460-00-4	

ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-11-2 Lab ID: 10225292022 Collected: 04/11/13 12:35 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	30.1 mg/kg		9.1	1.0	1	04/17/13 09:12	04/21/13 15:35		T6
Surrogates									
n-Triacontane (S)	86 %		50-150		1	04/17/13 09:12	04/21/13 15:35		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	ND mg/kg		5.5		1	04/18/13 09:53	04/20/13 03:38		
Surrogates									
a,a,a-Trifluorotoluene (S)	101 %		80-125		1	04/18/13 09:53	04/20/13 03:38	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	5.9 mg/kg		0.90	0.15	1	04/19/13 07:37	04/23/13 12:58	7440-38-2	
Barium	34.0 mg/kg		0.45	0.026	1	04/19/13 07:37	04/23/13 12:58	7440-39-3	
Cadmium	ND mg/kg		0.14	0.068	1	04/19/13 07:37	04/23/13 12:58	7440-43-9	
Chromium	6.6 mg/kg		0.45	0.069	1	04/19/13 07:37	04/23/13 12:58	7440-47-3	
Lead	42.1 mg/kg		0.90	0.065	1	04/19/13 07:37	04/23/13 12:58	7439-92-1	M1
Selenium	ND mg/kg		0.68	0.22	1	04/19/13 07:37	04/23/13 12:58	7782-49-2	
Silver	ND mg/kg		0.45	0.031	1	04/19/13 07:37	04/24/13 10:28	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.019	0.0057	1	04/19/13 07:56	04/22/13 13:25	7439-97-6	
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	9.3 %		0.10	0.10	1		04/15/13 00:00		
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
Acenaphthene	ND mg/kg		0.36	0.043	1	04/16/13 14:01	04/22/13 12:38	83-32-9	
Acenaphthylene	ND mg/kg		0.36	0.042	1	04/16/13 14:01	04/22/13 12:38	208-96-8	
Anthracene	ND mg/kg		0.36	0.047	1	04/16/13 14:01	04/22/13 12:38	120-12-7	
Benzidine	ND mg/kg		1.8	0.88	1	04/16/13 14:01	04/22/13 12:38	92-87-5	
Benzo(a)anthracene	0.79 mg/kg		0.36	0.051	1	04/16/13 14:01	04/22/13 12:38	56-55-3	
Benzo(a)pyrene	1.0 mg/kg		0.36	0.052	1	04/16/13 14:01	04/22/13 12:38	50-32-8	
Benzo(b)fluoranthene	1.4 mg/kg		0.36	0.052	1	04/16/13 14:01	04/22/13 12:38	205-99-2	
Benzo(g,h,i)perylene	0.90 mg/kg		0.36	0.055	1	04/16/13 14:01	04/22/13 12:38	191-24-2	
Benzo(k)fluoranthene	0.56 mg/kg		0.36	0.050	1	04/16/13 14:01	04/22/13 12:38	207-08-9	
Benzoic acid	ND mg/kg		1.9	0.50	1	04/16/13 14:01	04/22/13 12:38	65-85-0	
Benzyl alcohol	ND mg/kg		0.36	0.054	1	04/16/13 14:01	04/22/13 12:38	100-51-6	
4-Bromophenylphenyl ether	ND mg/kg		0.36	0.055	1	04/16/13 14:01	04/22/13 12:38	101-55-3	
Butylbenzylphthalate	ND mg/kg		0.36	0.049	1	04/16/13 14:01	04/22/13 12:38	85-68-7	
4-Chloro-3-methylphenol	ND mg/kg		0.36	0.043	1	04/16/13 14:01	04/22/13 12:38	59-50-7	
4-Chloroaniline	ND mg/kg		0.36	0.078	1	04/16/13 14:01	04/22/13 12:38	106-47-8	CL
bis(2-Chloroethoxy)methane	ND mg/kg		0.36	0.062	1	04/16/13 14:01	04/22/13 12:38	111-91-1	2M
bis(2-Chloroethyl) ether	ND mg/kg		0.36	0.074	1	04/16/13 14:01	04/22/13 12:38	111-44-4	
bis(2-Chloroisopropyl) ether	ND mg/kg		0.36	0.087	1	04/16/13 14:01	04/22/13 12:38	108-60-1	
2-Chloronaphthalene	ND mg/kg		0.36	0.044	1	04/16/13 14:01	04/22/13 12:38	91-58-7	
2-Chlorophenol	ND mg/kg		0.36	0.080	1	04/16/13 14:01	04/22/13 12:38	95-57-8	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-11-2 Lab ID: 10225292022 Collected: 04/11/13 12:35 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3550							
4-Chlorophenylphenyl ether	ND mg/kg	0.36	0.049	1	04/16/13 14:01	04/22/13 12:38	7005-72-3		
Chrysene	0.97 mg/kg	0.36	0.052	1	04/16/13 14:01	04/22/13 12:38	218-01-9		
Dibenz(a,h)anthracene	ND mg/kg	0.36	0.056	1	04/16/13 14:01	04/22/13 12:38	53-70-3		
Dibenzofuran	ND mg/kg	0.36	0.044	1	04/16/13 14:01	04/22/13 12:38	132-64-9		
1,2-Dichlorobenzene	ND mg/kg	0.36	0.078	1	04/16/13 14:01	04/22/13 12:38	95-50-1		
1,3-Dichlorobenzene	ND mg/kg	0.36	0.083	1	04/16/13 14:01	04/22/13 12:38	541-73-1		
1,4-Dichlorobenzene	ND mg/kg	0.36	0.077	1	04/16/13 14:01	04/22/13 12:38	106-46-7		
3,3'-Dichlorobenzidine	ND mg/kg	0.36	0.18	1	04/16/13 14:01	04/22/13 12:38	91-94-1		
2,4-Dichlorophenol	ND mg/kg	0.36	0.054	1	04/16/13 14:01	04/22/13 12:38	120-83-2		
Diethylphthalate	ND mg/kg	0.36	0.048	1	04/16/13 14:01	04/22/13 12:38	84-66-2		
2,4-Dimethylphenol	ND mg/kg	0.36	0.059	1	04/16/13 14:01	04/22/13 12:38	105-67-9		
Dimethylphthalate	ND mg/kg	0.36	0.051	1	04/16/13 14:01	04/22/13 12:38	131-11-3		
Di-n-butylphthalate	ND mg/kg	0.36	0.037	1	04/16/13 14:01	04/22/13 12:38	84-74-2		
4,6-Dinitro-2-methylphenol	ND mg/kg	1.9	0.31	1	04/16/13 14:01	04/22/13 12:38	534-52-1		
2,4-Dinitrophenol	ND mg/kg	0.36	0.052	1	04/16/13 14:01	04/22/13 12:38	51-28-5		
2,4-Dinitrotoluene	ND mg/kg	0.36	0.060	1	04/16/13 14:01	04/22/13 12:38	121-14-2		
2,6-Dinitrotoluene	ND mg/kg	0.36	0.051	1	04/16/13 14:01	04/22/13 12:38	606-20-2		
Di-n-octylphthalate	ND mg/kg	0.36	0.053	1	04/16/13 14:01	04/22/13 12:38	117-84-0		
bis(2-Ethylhexyl)phthalate	ND mg/kg	0.36	0.085	1	04/16/13 14:01	04/22/13 12:38	117-81-7		
Fluoranthene	1.1 mg/kg	0.36	0.044	1	04/16/13 14:01	04/22/13 12:38	206-44-0		
Fluorene	ND mg/kg	0.36	0.047	1	04/16/13 14:01	04/22/13 12:38	86-73-7		
Hexachloro-1,3-butadiene	ND mg/kg	0.36	0.090	1	04/16/13 14:01	04/22/13 12:38	87-68-3		
Hexachlorobenzene	ND mg/kg	0.36	0.051	1	04/16/13 14:01	04/22/13 12:38	118-74-1		
Hexachlorocyclopentadiene	ND mg/kg	0.36	0.18	1	04/16/13 14:01	04/22/13 12:38	77-47-4		
Hexachloroethane	ND mg/kg	0.36	0.086	1	04/16/13 14:01	04/22/13 12:38	67-72-1		
Indeno(1,2,3-cd)pyrene	0.69 mg/kg	0.36	0.053	1	04/16/13 14:01	04/22/13 12:38	193-39-5		
Isophorone	ND mg/kg	0.36	0.044	1	04/16/13 14:01	04/22/13 12:38	78-59-1		
2-Methylnaphthalene	ND mg/kg	0.36	0.054	1	04/16/13 14:01	04/22/13 12:38	91-57-6		
2-Methylphenol(o-Cresol)	ND mg/kg	0.36	0.055	1	04/16/13 14:01	04/22/13 12:38	95-48-7		
3&4-Methylphenol	ND mg/kg	0.73	0.049	1	04/16/13 14:01	04/22/13 12:38			
Naphthalene	ND mg/kg	0.36	0.071	1	04/16/13 14:01	04/22/13 12:38	91-20-3		
2-Nitroaniline	ND mg/kg	0.36	0.050	1	04/16/13 14:01	04/22/13 12:38	88-74-4		
3-Nitroaniline	ND mg/kg	0.36	0.071	1	04/16/13 14:01	04/22/13 12:38	99-09-2		
4-Nitroaniline	ND mg/kg	0.36	0.053	1	04/16/13 14:01	04/22/13 12:38	100-01-6		
Nitrobenzene	ND mg/kg	0.36	0.073	1	04/16/13 14:01	04/22/13 12:38	98-95-3		
2-Nitrophenol	ND mg/kg	0.36	0.060	1	04/16/13 14:01	04/22/13 12:38	88-75-5		
4-Nitrophenol	ND mg/kg	0.36	0.069	1	04/16/13 14:01	04/22/13 12:38	100-02-7		
N-Nitroso-di-n-propylamine	ND mg/kg	0.36	0.056	1	04/16/13 14:01	04/22/13 12:38	621-64-7		
N-Nitrosodiphenylamine	ND mg/kg	0.36	0.053	1	04/16/13 14:01	04/22/13 12:38	86-30-6		
Pentachlorophenol	ND mg/kg	0.74	0.37	1	04/16/13 14:01	04/22/13 12:38	87-86-5		
Phenanthrene	ND mg/kg	0.36	0.048	1	04/16/13 14:01	04/22/13 12:38	85-01-8		
Phenol	ND mg/kg	0.36	0.066	1	04/16/13 14:01	04/22/13 12:38	108-95-2		
Pyrene	1.1 mg/kg	0.36	0.050	1	04/16/13 14:01	04/22/13 12:38	129-00-0		
1,2,4-Trichlorobenzene	ND mg/kg	0.36	0.075	1	04/16/13 14:01	04/22/13 12:38	120-82-1		
2,4,5-Trichlorophenol	ND mg/kg	0.36	0.062	1	04/16/13 14:01	04/22/13 12:38	95-95-4		

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-11-2 Lab ID: 10225292022 Collected: 04/11/13 12:35 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
2,4,6-Trichlorophenol	ND mg/kg		0.36	0.054	1	04/16/13 14:01	04/22/13 12:38	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	58 %		30-127		1	04/16/13 14:01	04/22/13 12:38	4165-60-0	
2-Fluorobiphenyl (S)	73 %		42-125		1	04/16/13 14:01	04/22/13 12:38	321-60-8	
Terphenyl-d14 (S)	78 %		51-125		1	04/16/13 14:01	04/22/13 12:38	1718-51-0	
Phenol-d6 (S)	71 %		30-125		1	04/16/13 14:01	04/22/13 12:38	13127-88-3	
2-Fluorophenol (S)	62 %		30-127		1	04/16/13 14:01	04/22/13 12:38	367-12-4	
2,4,6-Tribromophenol (S)	85 %		46-125		1	04/16/13 14:01	04/22/13 12:38	118-79-6	
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Acetone	ND mg/kg		1.1	0.54	1	04/16/13 10:11	04/16/13 18:39	67-64-1	
Allyl chloride	ND mg/kg		0.22	0.045	1	04/16/13 10:11	04/16/13 18:39	107-05-1	
Benzene	ND mg/kg		0.022	0.0051	1	04/16/13 10:11	04/16/13 18:39	71-43-2	
Bromobenzene	ND mg/kg		0.054	0.0061	1	04/16/13 10:11	04/16/13 18:39	108-86-1	
Bromochloromethane	ND mg/kg		0.054	0.018	1	04/16/13 10:11	04/16/13 18:39	74-97-5	
Bromodichloromethane	ND mg/kg		0.054	0.0086	1	04/16/13 10:11	04/16/13 18:39	75-27-4	
Bromoform	ND mg/kg		0.22	0.010	1	04/16/13 10:11	04/16/13 18:39	75-25-2	
Bromomethane	ND mg/kg		0.54	0.037	1	04/16/13 10:11	04/16/13 18:39	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.27	0.14	1	04/16/13 10:11	04/16/13 18:39	78-93-3	
n-Butylbenzene	ND mg/kg		0.054	0.0071	1	04/16/13 10:11	04/16/13 18:39	104-51-8	
sec-Butylbenzene	ND mg/kg		0.054	0.0046	1	04/16/13 10:11	04/16/13 18:39	135-98-8	
tert-Butylbenzene	ND mg/kg		0.054	0.0056	1	04/16/13 10:11	04/16/13 18:39	98-06-6	
Carbon tetrachloride	ND mg/kg		0.054	0.010	1	04/16/13 10:11	04/16/13 18:39	56-23-5	
Chlorobenzene	ND mg/kg		0.054	0.0062	1	04/16/13 10:11	04/16/13 18:39	108-90-7	
Chloroethane	ND mg/kg		0.54	0.044	1	04/16/13 10:11	04/16/13 18:39	75-00-3	
Chloroform	ND mg/kg		0.054	0.0052	1	04/16/13 10:11	04/16/13 18:39	67-66-3	
Chloromethane	ND mg/kg		0.22	0.051	1	04/16/13 10:11	04/16/13 18:39	74-87-3	
2-Chlorotoluene	ND mg/kg		0.054	0.0073	1	04/16/13 10:11	04/16/13 18:39	95-49-8	
4-Chlorotoluene	ND mg/kg		0.054	0.0069	1	04/16/13 10:11	04/16/13 18:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.22	0.048	1	04/16/13 10:11	04/16/13 18:39	96-12-8	
Dibromochloromethane	ND mg/kg		0.054	0.0046	1	04/16/13 10:11	04/16/13 18:39	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.054	0.0091	1	04/16/13 10:11	04/16/13 18:39	106-93-4	
Dibromomethane	ND mg/kg		0.054	0.013	1	04/16/13 10:11	04/16/13 18:39	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.054	0.0063	1	04/16/13 10:11	04/16/13 18:39	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.054	0.0044	1	04/16/13 10:11	04/16/13 18:39	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.054	0.0061	1	04/16/13 10:11	04/16/13 18:39	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.054	0.014	1	04/16/13 10:11	04/16/13 18:39	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.054	0.027	1	04/16/13 10:11	04/16/13 18:39	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.054	0.0071	1	04/16/13 10:11	04/16/13 18:39	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.054	0.0079	1	04/16/13 10:11	04/16/13 18:39	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.054	0.0093	1	04/16/13 10:11	04/16/13 18:39	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.054	0.010	1	04/16/13 10:11	04/16/13 18:39	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.54	0.035	1	04/16/13 10:11	04/16/13 18:39	75-43-4	
1,2-Dichloropropane	ND mg/kg		0.054	0.027	1	04/16/13 10:11	04/16/13 18:39	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.054	0.0077	1	04/16/13 10:11	04/16/13 18:39	142-28-9	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: GP-11-2 Lab ID: 10225292022 Collected: 04/11/13 12:35 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
2,2-Dichloropropane	ND mg/kg	0.22	0.0077	1	04/16/13 10:11	04/16/13 18:39	594-20-7		
1,1-Dichloropropene	ND mg/kg	0.054	0.0075	1	04/16/13 10:11	04/16/13 18:39	563-58-6		
cis-1,3-Dichloropropene	ND mg/kg	0.054	0.0084	1	04/16/13 10:11	04/16/13 18:39	10061-01-5		
trans-1,3-Dichloropropene	ND mg/kg	0.054	0.0092	1	04/16/13 10:11	04/16/13 18:39	10061-02-6		
Diethyl ether (Ethyl ether)	ND mg/kg	0.22	0.047	1	04/16/13 10:11	04/16/13 18:39	60-29-7		
Ethylbenzene	ND mg/kg	0.054	0.0045	1	04/16/13 10:11	04/16/13 18:39	100-41-4		
Hexachloro-1,3-butadiene	ND mg/kg	0.27	0.024	1	04/16/13 10:11	04/16/13 18:39	87-68-3		
Isopropylbenzene (Cumene)	ND mg/kg	0.054	0.0065	1	04/16/13 10:11	04/16/13 18:39	98-82-8		
p-Isopropyltoluene	ND mg/kg	0.054	0.0064	1	04/16/13 10:11	04/16/13 18:39	99-87-6		
Methylene Chloride	ND mg/kg	0.22	0.11	1	04/16/13 10:11	04/16/13 18:39	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND mg/kg	0.27	0.14	1	04/16/13 10:11	04/16/13 18:39	108-10-1		
Methyl-tert-butyl ether	ND mg/kg	0.054	0.0098	1	04/16/13 10:11	04/16/13 18:39	1634-04-4		
Naphthalene	ND mg/kg	0.22	0.0062	1	04/16/13 10:11	04/16/13 18:39	91-20-3		
n-Propylbenzene	ND mg/kg	0.054	0.0055	1	04/16/13 10:11	04/16/13 18:39	103-65-1		
Styrene	ND mg/kg	0.054	0.027	1	04/16/13 10:11	04/16/13 18:39	100-42-5		
1,1,1,2-Tetrachloroethane	ND mg/kg	0.054	0.027	1	04/16/13 10:11	04/16/13 18:39	630-20-6		
1,1,2,2-Tetrachloroethane	ND mg/kg	0.054	0.010	1	04/16/13 10:11	04/16/13 18:39	79-34-5		
Tetrachloroethene	ND mg/kg	0.054	0.0077	1	04/16/13 10:11	04/16/13 18:39	127-18-4		
Tetrahydrofuran	ND mg/kg	2.2	0.15	1	04/16/13 10:11	04/16/13 18:39	109-99-9		
Toluene	ND mg/kg	0.054	0.0082	1	04/16/13 10:11	04/16/13 18:39	108-88-3		
1,2,3-Trichlorobenzene	ND mg/kg	0.054	0.0081	1	04/16/13 10:11	04/16/13 18:39	87-61-6		
1,2,4-Trichlorobenzene	ND mg/kg	0.054	0.010	1	04/16/13 10:11	04/16/13 18:39	120-82-1		
1,1,1-Trichloroethane	ND mg/kg	0.054	0.0074	1	04/16/13 10:11	04/16/13 18:39	71-55-6		
1,1,2-Trichloroethane	ND mg/kg	0.054	0.013	1	04/16/13 10:11	04/16/13 18:39	79-00-5		
Trichloroethene	ND mg/kg	0.054	0.0094	1	04/16/13 10:11	04/16/13 18:39	79-01-6		
Trichlorofluoromethane	ND mg/kg	0.22	0.019	1	04/16/13 10:11	04/16/13 18:39	75-69-4		
1,2,3-Trichloropropane	ND mg/kg	0.22	0.015	1	04/16/13 10:11	04/16/13 18:39	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND mg/kg	0.054	0.022	1	04/16/13 10:11	04/16/13 18:39	76-13-1		
1,2,4-Trimethylbenzene	ND mg/kg	0.054	0.0065	1	04/16/13 10:11	04/16/13 18:39	95-63-6		
1,3,5-Trimethylbenzene	ND mg/kg	0.054	0.0064	1	04/16/13 10:11	04/16/13 18:39	108-67-8		
Vinyl chloride	ND mg/kg	0.022	0.0081	1	04/16/13 10:11	04/16/13 18:39	75-01-4		
Xylene (Total)	ND mg/kg	0.16	0.018	1	04/16/13 10:11	04/16/13 18:39	1330-20-7		
Surrogates									
1,2-Dichloroethane-d4 (S)	98 %	57-150		1	04/16/13 10:11	04/16/13 18:39	17060-07-0		
Toluene-d8 (S)	95 %	70-136		1	04/16/13 10:11	04/16/13 18:39	2037-26-5		
4-Bromofluorobenzene (S)	96 %	67-138		1	04/16/13 10:11	04/16/13 18:39	460-00-4		

ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: Trip Blank Lab ID: 10225292024 Collected: 04/10/13 00:00 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	ND mg/kg		5.0		1	04/18/13 09:53	04/19/13 23:43		
Surrogates									
a,a,a-Trifluorotoluene (S)	99 %		80-125		1	04/18/13 09:53	04/19/13 23:43	98-08-8	
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Acetone	ND mg/kg		1.0	0.50	1	04/16/13 10:11	04/16/13 16:27	67-64-1	
Allyl chloride	ND mg/kg		0.20	0.041	1	04/16/13 10:11	04/16/13 16:27	107-05-1	
Benzene	ND mg/kg		0.020	0.0047	1	04/16/13 10:11	04/16/13 16:27	71-43-2	
Bromobenzene	ND mg/kg		0.050	0.0056	1	04/16/13 10:11	04/16/13 16:27	108-86-1	
Bromochloromethane	ND mg/kg		0.050	0.017	1	04/16/13 10:11	04/16/13 16:27	74-97-5	
Bromodichloromethane	ND mg/kg		0.050	0.0079	1	04/16/13 10:11	04/16/13 16:27	75-27-4	
Bromoform	ND mg/kg		0.20	0.0093	1	04/16/13 10:11	04/16/13 16:27	75-25-2	
Bromomethane	ND mg/kg		0.50	0.034	1	04/16/13 10:11	04/16/13 16:27	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.25	0.12	1	04/16/13 10:11	04/16/13 16:27	78-93-3	
n-Butylbenzene	ND mg/kg		0.050	0.0065	1	04/16/13 10:11	04/16/13 16:27	104-51-8	
sec-Butylbenzene	ND mg/kg		0.050	0.0042	1	04/16/13 10:11	04/16/13 16:27	135-98-8	
tert-Butylbenzene	ND mg/kg		0.050	0.0052	1	04/16/13 10:11	04/16/13 16:27	98-06-6	
Carbon tetrachloride	ND mg/kg		0.050	0.0096	1	04/16/13 10:11	04/16/13 16:27	56-23-5	
Chlorobenzene	ND mg/kg		0.050	0.0057	1	04/16/13 10:11	04/16/13 16:27	108-90-7	
Chloroethane	ND mg/kg		0.50	0.041	1	04/16/13 10:11	04/16/13 16:27	75-00-3	
Chloroform	ND mg/kg		0.050	0.0048	1	04/16/13 10:11	04/16/13 16:27	67-66-3	
Chloromethane	ND mg/kg		0.20	0.047	1	04/16/13 10:11	04/16/13 16:27	74-87-3	
2-Chlorotoluene	ND mg/kg		0.050	0.0067	1	04/16/13 10:11	04/16/13 16:27	95-49-8	
4-Chlorotoluene	ND mg/kg		0.050	0.0064	1	04/16/13 10:11	04/16/13 16:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.20	0.045	1	04/16/13 10:11	04/16/13 16:27	96-12-8	
Dibromochloromethane	ND mg/kg		0.050	0.0042	1	04/16/13 10:11	04/16/13 16:27	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.050	0.0084	1	04/16/13 10:11	04/16/13 16:27	106-93-4	
Dibromomethane	ND mg/kg		0.050	0.012	1	04/16/13 10:11	04/16/13 16:27	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.050	0.0058	1	04/16/13 10:11	04/16/13 16:27	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.050	0.0040	1	04/16/13 10:11	04/16/13 16:27	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.050	0.0056	1	04/16/13 10:11	04/16/13 16:27	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.050	0.013	1	04/16/13 10:11	04/16/13 16:27	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.050	0.025	1	04/16/13 10:11	04/16/13 16:27	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.050	0.0066	1	04/16/13 10:11	04/16/13 16:27	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.050	0.0073	1	04/16/13 10:11	04/16/13 16:27	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.050	0.0086	1	04/16/13 10:11	04/16/13 16:27	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.050	0.0093	1	04/16/13 10:11	04/16/13 16:27	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.50	0.032	1	04/16/13 10:11	04/16/13 16:27	75-43-4	
1,2-Dichloropropane	ND mg/kg		0.050	0.025	1	04/16/13 10:11	04/16/13 16:27	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.050	0.0071	1	04/16/13 10:11	04/16/13 16:27	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.20	0.0071	1	04/16/13 10:11	04/16/13 16:27	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.050	0.0069	1	04/16/13 10:11	04/16/13 16:27	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.050	0.0078	1	04/16/13 10:11	04/16/13 16:27	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.050	0.0084	1	04/16/13 10:11	04/16/13 16:27	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.20	0.044	1	04/16/13 10:11	04/16/13 16:27	60-29-7	

Date: 04/25/2013 04:09 PM

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10225292

Sample: Trip Blank Lab ID: 10225292024 Collected: 04/10/13 00:00 Received: 04/12/13 15:40 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Ethylbenzene	ND mg/kg		0.050	0.0042	1	04/16/13 10:11	04/16/13 16:27	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.25	0.022	1	04/16/13 10:11	04/16/13 16:27	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.050	0.0060	1	04/16/13 10:11	04/16/13 16:27	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.050	0.0059	1	04/16/13 10:11	04/16/13 16:27	99-87-6	
Methylene Chloride	ND mg/kg		0.20	0.10	1	04/16/13 10:11	04/16/13 16:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.25	0.12	1	04/16/13 10:11	04/16/13 16:27	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.050	0.0090	1	04/16/13 10:11	04/16/13 16:27	1634-04-4	
Naphthalene	ND mg/kg		0.20	0.0057	1	04/16/13 10:11	04/16/13 16:27	91-20-3	
n-Propylbenzene	ND mg/kg		0.050	0.0050	1	04/16/13 10:11	04/16/13 16:27	103-65-1	
Styrene	ND mg/kg		0.050	0.025	1	04/16/13 10:11	04/16/13 16:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.050	0.025	1	04/16/13 10:11	04/16/13 16:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.050	0.0093	1	04/16/13 10:11	04/16/13 16:27	79-34-5	
Tetrachloroethene	ND mg/kg		0.050	0.0071	1	04/16/13 10:11	04/16/13 16:27	127-18-4	
Tetrahydrofuran	ND mg/kg		2.0	0.14	1	04/16/13 10:11	04/16/13 16:27	109-99-9	
Toluene	ND mg/kg		0.050	0.0076	1	04/16/13 10:11	04/16/13 16:27	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.050	0.0075	1	04/16/13 10:11	04/16/13 16:27	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.050	0.0094	1	04/16/13 10:11	04/16/13 16:27	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.050	0.0069	1	04/16/13 10:11	04/16/13 16:27	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.050	0.012	1	04/16/13 10:11	04/16/13 16:27	79-00-5	
Trichloroethene	ND mg/kg		0.050	0.0087	1	04/16/13 10:11	04/16/13 16:27	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.20	0.018	1	04/16/13 10:11	04/16/13 16:27	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.20	0.013	1	04/16/13 10:11	04/16/13 16:27	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.050	0.020	1	04/16/13 10:11	04/16/13 16:27	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.050	0.0060	1	04/16/13 10:11	04/16/13 16:27	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.050	0.0059	1	04/16/13 10:11	04/16/13 16:27	108-67-8	
Vinyl chloride	ND mg/kg		0.020	0.0075	1	04/16/13 10:11	04/16/13 16:27	75-01-4	
Xylene (Total)	ND mg/kg		0.15	0.017	1	04/16/13 10:11	04/16/13 16:27	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	97 %		57-150		1	04/16/13 10:11	04/16/13 16:27	17060-07-0	
Toluene-d8 (S)	96 %		70-136		1	04/16/13 10:11	04/16/13 16:27	2037-26-5	
4-Bromofluorobenzene (S)	98 %		67-138		1	04/16/13 10:11	04/16/13 16:27	460-00-4	

ANALYTICAL RESULTS

Project: MCES 123840
Pace Project No.: 10225292

Sample: Trip Blank	Lab ID: 10225292025	Collected: 04/10/13 00:00	Received: 04/12/13 15:40	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Gasoline Range Organics	ND ug/L		100		1		04/18/13 22:37		
Surrogates									
a,a,a-Trifluorotoluene (S)	101 %		80-125		1		04/18/13 22:37	98-08-8	
8260 VOC	Analytical Method: EPA 8260								
Acetone	ND ug/L		20.0	10.0	1		04/18/13 23:04	67-64-1	
Allyl chloride	ND ug/L		4.0	1.8	1		04/18/13 23:04	107-05-1	
Benzene	ND ug/L		1.0	0.062	1		04/18/13 23:04	71-43-2	
Bromobenzene	ND ug/L		1.0	0.086	1		04/18/13 23:04	108-86-1	
Bromochloromethane	ND ug/L		1.0	0.32	1		04/18/13 23:04	74-97-5	
Bromodichloromethane	ND ug/L		1.0	0.11	1		04/18/13 23:04	75-27-4	
Bromoform	ND ug/L		4.0	0.068	1		04/18/13 23:04	75-25-2	
Bromomethane	ND ug/L		10.0	0.36	1		04/18/13 23:04	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	2.5	1		04/18/13 23:04	78-93-3	
n-Butylbenzene	ND ug/L		1.0	0.15	1		04/18/13 23:04	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	0.10	1		04/18/13 23:04	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	0.10	1		04/18/13 23:04	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	0.16	1		04/18/13 23:04	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.10	1		04/18/13 23:04	108-90-7	
Chloroethane	ND ug/L		1.0	0.22	1		04/18/13 23:04	75-00-3	
Chloroform	ND ug/L		1.0	0.14	1		04/18/13 23:04	67-66-3	
Chloromethane	ND ug/L		4.0	0.41	1		04/18/13 23:04	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.50	1		04/18/13 23:04	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.068	1		04/18/13 23:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	0.62	1		04/18/13 23:04	96-12-8	
Dibromochloromethane	ND ug/L		1.0	0.10	1		04/18/13 23:04	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	0.091	1		04/18/13 23:04	106-93-4	
Dibromomethane	ND ug/L		4.0	0.21	1		04/18/13 23:04	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.36	1		04/18/13 23:04	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.11	1		04/18/13 23:04	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.064	1		04/18/13 23:04	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.20	1		04/18/13 23:04	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.11	1		04/18/13 23:04	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.37	1		04/18/13 23:04	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.19	1		04/18/13 23:04	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.085	1		04/18/13 23:04	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.15	1		04/18/13 23:04	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	0.11	1		04/18/13 23:04	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	0.27	1		04/18/13 23:04	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.081	1		04/18/13 23:04	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	0.15	1		04/18/13 23:04	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.35	1		04/18/13 23:04	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	0.090	1		04/18/13 23:04	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	0.37	1		04/18/13 23:04	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	2.0	1		04/18/13 23:04	60-29-7	
Ethylbenzene	ND ug/L		1.0	0.081	1		04/18/13 23:04	100-41-4	

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ANALYTICAL RESULTS

Project: MCES 123840
Pace Project No.: 10225292

Sample: Trip Blank	Lab ID: 10225292025	Collected: 04/10/13 00:00	Received: 04/12/13 15:40	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
Hexachloro-1,3-butadiene	ND ug/L		5.0	0.19	1		04/18/13 23:04	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	0.076	1		04/18/13 23:04	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	0.086	1		04/18/13 23:04	99-87-6	
Methylene Chloride	ND ug/L		4.0	2.0	1		04/18/13 23:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	2.5	1		04/18/13 23:04	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	0.088	1		04/18/13 23:04	1634-04-4	
Naphthalene	ND ug/L		4.0	0.068	1		04/18/13 23:04	91-20-3	
n-Propylbenzene	ND ug/L		1.0	0.078	1		04/18/13 23:04	103-65-1	
Styrene	ND ug/L		1.0	0.060	1		04/18/13 23:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	0.36	1		04/18/13 23:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.097	1		04/18/13 23:04	79-34-5	
Tetrachloroethene	ND ug/L		1.0	0.13	1		04/18/13 23:04	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	0.97	1		04/18/13 23:04	109-99-9	
Toluene	ND ug/L		1.0	0.077	1		04/18/13 23:04	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.13	1		04/18/13 23:04	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.25	1		04/18/13 23:04	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	0.19	1		04/18/13 23:04	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.15	1		04/18/13 23:04	79-00-5	
Trichloroethene	ND ug/L		1.0	0.083	1		04/18/13 23:04	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.13	1		04/18/13 23:04	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	0.33	1		04/18/13 23:04	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	0.18	1		04/18/13 23:04	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	0.071	1		04/18/13 23:04	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	0.087	1		04/18/13 23:04	108-67-8	
Vinyl chloride	ND ug/L		0.40	0.16	1		04/18/13 23:04	75-01-4	
Xylene (Total)	ND ug/L		3.0	0.22	1		04/18/13 23:04	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	98 %		75-125		1		04/18/13 23:04	17060-07-0	
Toluene-d8 (S)	98 %		75-125		1		04/18/13 23:04	2037-26-5	
4-Bromofluorobenzene (S)	101 %		75-125		1		04/18/13 23:04	460-00-4	

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

QC Batch: GCV/10597 Analysis Method: WI MOD GRO

QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV

Associated Lab Samples: 10225292003, 10225292004, 10225292005, 10225292006, 10225292008, 10225292010, 10225292013, 10225292015

METHOD BLANK: 1410227 Matrix: Solid

Associated Lab Samples: 10225292003, 10225292004, 10225292005, 10225292006, 10225292008, 10225292010, 10225292013, 10225292015

Parameter	Units	Blank	Reporting		Analyzed	Qualifiers
		Result	Limit			
Gasoline Range Organics	mg/kg	ND	5.0	04/16/13 14:33		
a,a,a-Trifluorotoluene (S)	%	99	80-125	04/16/13 14:33		

LABORATORY CONTROL SAMPLE & LCSD: 1410228 1410229

Parameter	Units	Spike	LCS	LCSD	LCS	LCSD	% Rec	RPD	Max	RPD	Qualifiers
		Conc.	Result	Result	% Rec	% Rec	Limits				
Gasoline Range Organics	mg/kg	50	53.4	54.8	107	110	80-120		3	20	
a,a,a-Trifluorotoluene (S)	%				98	97	80-125				

MATRIX SPIKE SAMPLE: 1410230

Parameter	Units	10225057005	Spike	MS	MS	% Rec	Limits	Qualifiers
		Result	Conc.	Result	% Rec			
Gasoline Range Organics	mg/kg	ND	62	79.8	129	80-120	M1	
a,a,a-Trifluorotoluene (S)	%				99	80-125		

SAMPLE DUPLICATE: 1410231

Parameter	Units	10225057009	Dup	RPD	Max	RPD	Qualifiers
		Result	Result				
Gasoline Range Organics	mg/kg	128	137	7	20		
a,a,a-Trifluorotoluene (S)	%	100	100	6			

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

QC Batch:	GCV/10608	Analysis Method:	WI MOD GRO
QC Batch Method:	TPH GRO/PVOC WI ext.	Analysis Description:	WIGRO Solid GCV
Associated Lab Samples:	10225292018, 10225292020, 10225292021, 10225292022, 10225292024		

METHOD BLANK: 1411748 Matrix: Solid

Associated Lab Samples: 10225292018, 10225292020, 10225292021, 10225292022, 10225292024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	5.0	04/19/13 23:04	
a,a,a-Trifluorotoluene (S)	%	103	80-125	04/19/13 23:04	

LABORATORY CONTROL SAMPLE & LCSD: 1411749 1411750

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	50	53.7	52.0	107	104	80-120	3	20	
a,a,a-Trifluorotoluene (S)	%				98	97	80-125			

MATRIX SPIKE SAMPLE: 1411751

Parameter	Units	10225668001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	ND	57.8	65.3	113	80-120	
a,a,a-Trifluorotoluene (S)	%				97	80-125	

SAMPLE DUPLICATE: 1411752

Parameter	Units	10225668002 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	41.3	ND		20	
a,a,a-Trifluorotoluene (S)	%	116	103	10		

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

QC Batch: GCV/10614 Analysis Method: WI MOD GRO

QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water

Associated Lab Samples: 10225292002, 10225292007, 10225292009, 10225292012, 10225292019, 10225292025

METHOD BLANK: 1412214 Matrix: Water

Associated Lab Samples: 10225292002, 10225292007, 10225292009, 10225292012, 10225292019, 10225292025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	100	04/18/13 21:58	
a,a,a-Trifluorotoluene (S)	%	102	80-125	04/18/13 21:58	

LABORATORY CONTROL SAMPLE & LCSD: 1412215 1412216

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	1000	1020	1040	102	104	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				98	100	80-125			

MATRIX SPIKE SAMPLE: 1413716

Parameter	Units	10225261003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	ND	1000	1090	109	80-120	
a,a,a-Trifluorotoluene (S)	%				97	80-125	

SAMPLE DUPLICATE: 1413717

Parameter	Units	10225292002 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	ND		20	
a,a,a-Trifluorotoluene (S)	%	102	100	1		

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

QC Batch:	MERP/8262	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
Associated Lab Samples:	10225292002, 10225292007, 10225292009, 10225292012, 10225292019		

METHOD BLANK: 1409668 Matrix: Water

Associated Lab Samples: 10225292002, 10225292007, 10225292009, 10225292012, 10225292019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/22/13 13:17	

LABORATORY CONTROL SAMPLE: 1409669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1409828 1409829

Parameter	Units	10225292002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Mercury	ug/L	ND	5	5	5.0	4.8	100	96	80-120	4	20	



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QUALITY CONTROL DATA

Project: MCES 123840
Pace Project No.: 10225292

QC Batch: MERP/8261 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 10225292003, 10225292004, 10225292005, 10225292006, 10225292008, 10225292010, 10225292013,
10225292015, 10225292018, 10225292020, 10225292021, 10225292022

METHOD BLANK: 1409663 Matrix: Solid

Associated Lab Samples: 10225292003, 10225292004, 10225292005, 10225292006, 10225292008, 10225292010, 10225292013,
10225292015, 10225292018, 10225292020, 10225292021, 10225292022

Parameter	Units	Blank	Reporting		Analyzed	Qualifiers
		Result	Limit			
Mercury	mg/kg	ND	0.018		04/22/13 12:40	

LABORATORY CONTROL SAMPLE: 1409664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.43	0.45	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1409665 1409666

Parameter	10225071001		MS	MSD	MS		MSD	MS	MSD	% Rec	Max	
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Mercury	mg/kg	ND	.48	.45	0.37	0.35	73	72	80-120	7	20	M1

MATRIX SPIKE SAMPLE: 1409667

Parameter	Units	10225292022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	ND	.49	0.54	107	80-120	

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

QC Batch:	MPRP/38523	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples:	10225292003, 10225292004, 10225292005, 10225292006, 10225292008, 10225292010, 10225292013, 10225292015, 10225292018, 10225292020, 10225292021, 10225292022		

METHOD BLANK: 1409658 Matrix: Solid

Associated Lab Samples: 10225292003, 10225292004, 10225292005, 10225292006, 10225292008, 10225292010, 10225292013,
10225292015, 10225292018, 10225292020, 10225292021, 10225292022

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
Arsenic	mg/kg	ND	0.82	04/23/13 11:18	
Barium	mg/kg	ND	0.41	04/23/13 11:18	
Cadmium	mg/kg	ND	0.12	04/23/13 11:18	
Chromium	mg/kg	ND	0.41	04/23/13 11:18	
Lead	mg/kg	ND	0.82	04/23/13 11:18	
Selenium	mg/kg	ND	0.61	04/23/13 11:18	
Silver	mg/kg	ND	0.41	04/24/13 09:13	

LABORATORY CONTROL SAMPLE: 1409659

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Arsenic	mg/kg	43.5	39.2	90	80-120	
Barium	mg/kg	43.5	41.5	95	80-120	
Cadmium	mg/kg	43.5	38.7	89	80-120	
Chromium	mg/kg	43.5	41.5	95	80-120	
Lead	mg/kg	43.5	39.4	91	80-120	
Selenium	mg/kg	43.5	38.0	87	80-120	
Silver	mg/kg	21.7	19.6	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1409660 1409661

Parameter	Units	10225292003	MS	MSD	MS	MSD	% Rec	MSD % Rec	% Rec	Limits	Max	Qual
		Result	Spike Conc.	Spike Conc.							RPD	
Arsenic	mg/kg	5.8	58.5	50.6	56.7	51.6	87	90	75-125	9	30	
Barium	mg/kg	42.4	58.5	50.6	114	99.1	122	112	75-125	14	30	
Cadmium	mg/kg	ND	58.5	50.6	51.5	45.5	88	90	75-125	12	30	
Chromium	mg/kg	8.4	58.5	50.6	66.4	57.3	99	97	75-125	15	30	
Lead	mg/kg	4.4	58.5	50.6	54.0	47.4	85	85	75-125	13	30	
Selenium	mg/kg	1.2	58.5	50.6	50.7	44.6	85	86	75-125	13	30	
Silver	mg/kg	ND	29.2	25.3	26.0	22.8	89	90	75-125	13	30	

MATRIX SPIKE SAMPLE: 1409662

Parameter	Units	10225292022	Spike	MS	MS % Rec	% Rec	Limits	Qualifiers
		Result	Conc.	Result				
Arsenic	mg/kg		5.9	43.4	48.4	98	75-125	
Barium	mg/kg		34.0	43.4	80.7	107	75-125	
Cadmium	mg/kg		ND	43.4	40.1	92	75-125	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

MATRIX SPIKE SAMPLE: 1409662

Parameter	Units	10225292022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	mg/kg	6.6	43.4	52.0	105	75-125	
Lead	mg/kg	42.1	43.4	45.4	7	75-125	M1
Selenium	mg/kg	ND	43.4	38.6	88	75-125	
Silver	mg/kg	ND	21.7	20.3	93	75-125	

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

QC Batch: MPRP/38549 Analysis Method: EPA 6010

QC Batch Method: EPA 3010 Analysis Description: 6010 MET

Associated Lab Samples: 10225292002, 10225292007, 10225292009, 10225292012, 10225292019

METHOD BLANK: 1410440 Matrix: Water

Associated Lab Samples: 10225292002, 10225292007, 10225292009, 10225292012, 10225292019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	20.0	04/24/13 10:57	
Barium	ug/L	ND	10.0	04/24/13 10:57	
Cadmium	ug/L	ND	3.0	04/24/13 10:57	
Chromium	ug/L	ND	10.0	04/24/13 10:57	
Lead	ug/L	ND	10.0	04/24/13 10:57	
Selenium	ug/L	ND	20.0	04/24/13 10:57	
Silver	ug/L	ND	10.0	04/24/13 10:57	

LABORATORY CONTROL SAMPLE: 1410441

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	1060	106	80-120	
Barium	ug/L	1000	1060	106	80-120	
Cadmium	ug/L	1000	1050	105	80-120	
Chromium	ug/L	1000	1060	106	80-120	
Lead	ug/L	1000	1060	106	80-120	
Selenium	ug/L	1000	1060	106	80-120	
Silver	ug/L	500	528	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1413207 1413208

Parameter	Units	MS Spike		MSD Spike		MS Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
		10225292007	Result	Conc.	Conc.							
Arsenic	ug/L	ND	1000	1000	1090	1090	109	109	75-125	.1	.20	
Barium	ug/L	151	1000	1000	1170	1160	101	101	75-125	.7	.20	
Cadmium	ug/L	ND	1000	1000	1040	1030	104	103	75-125	.8	.20	
Chromium	ug/L	ND	1000	1000	1040	1030	104	103	75-125	.5	.20	
Lead	ug/L	ND	1000	1000	1010	1010	101	101	75-125	.02	.20	
Selenium	ug/L	ND	1000	1000	1070	1050	106	105	75-125	1	.20	
Silver	ug/L	ND	500	500	531	526	106	105	75-125	1	.20	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

QC Batch: MPRP/38532 Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 10225292003, 10225292004, 10225292005, 10225292006, 10225292008, 10225292010

SAMPLE DUPLICATE: 1409773

Parameter	Units	10225251002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.5	11.5	9	30	

SAMPLE DUPLICATE: 1409774

Parameter	Units	10225292010 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.2	12.8	3	30	

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

QC Batch: MPRP/38533

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 10225292013, 10225292015, 10225292018, 10225292020, 10225292021, 10225292022

SAMPLE DUPLICATE: 1409775

Parameter	Units	10225292013 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	61.8	60.3	2	30	

SAMPLE DUPLICATE: 1409776

Parameter	Units	10225225001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	36.6	36.4	.5	30	

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

QC Batch:	MSV/23366	Analysis Method:	EPA 8260
QC Batch Method:	EPA 5035/5030B	Analysis Description:	8260 MSV 5030 Med Level
Associated Lab Samples:	10225292003, 10225292004, 10225292005, 10225292006, 10225292008		

METHOD BLANK: 1409601 Matrix: Solid

Associated Lab Samples: 10225292003, 10225292004, 10225292005, 10225292006, 10225292008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.050	04/14/13 18:58	
1,1,1-Trichloroethane	mg/kg	ND	0.050	04/14/13 18:58	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.050	04/14/13 18:58	
1,1,2-Trichloroethane	mg/kg	ND	0.050	04/14/13 18:58	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.050	04/14/13 18:58	
1,1-Dichloroethane	mg/kg	ND	0.050	04/14/13 18:58	
1,1-Dichloroethene	mg/kg	ND	0.050	04/14/13 18:58	
1,1-Dichloropropene	mg/kg	ND	0.050	04/14/13 18:58	
1,2,3-Trichlorobenzene	mg/kg	ND	0.050	04/14/13 18:58	
1,2,3-Trichloropropane	mg/kg	ND	0.20	04/14/13 18:58	
1,2,4-Trichlorobenzene	mg/kg	ND	0.050	04/14/13 18:58	
1,2,4-Trimethylbenzene	mg/kg	ND	0.050	04/14/13 18:58	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.20	04/14/13 18:58	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.050	04/14/13 18:58	
1,2-Dichlorobenzene	mg/kg	ND	0.050	04/14/13 18:58	
1,2-Dichloroethane	mg/kg	ND	0.050	04/14/13 18:58	
1,2-Dichloropropane	mg/kg	ND	0.050	04/14/13 18:58	
1,3,5-Trimethylbenzene	mg/kg	ND	0.050	04/14/13 18:58	
1,3-Dichlorobenzene	mg/kg	ND	0.050	04/14/13 18:58	
1,3-Dichloropropane	mg/kg	ND	0.050	04/14/13 18:58	
1,4-Dichlorobenzene	mg/kg	ND	0.050	04/14/13 18:58	
2,2-Dichloropropane	mg/kg	ND	0.20	04/14/13 18:58	
2-Butanone (MEK)	mg/kg	ND	0.25	04/14/13 18:58	
2-Chlorotoluene	mg/kg	ND	0.050	04/14/13 18:58	
4-Chlorotoluene	mg/kg	ND	0.050	04/14/13 18:58	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.25	04/14/13 18:58	
Acetone	mg/kg	ND	1.0	04/14/13 18:58	
Allyl chloride	mg/kg	ND	0.20	04/14/13 18:58	
Benzene	mg/kg	ND	0.020	04/14/13 18:58	
Bromobenzene	mg/kg	ND	0.050	04/14/13 18:58	
Bromochloromethane	mg/kg	ND	0.050	04/14/13 18:58	
Bromodichloromethane	mg/kg	ND	0.050	04/14/13 18:58	
Bromoform	mg/kg	ND	0.20	04/14/13 18:58	
Bromomethane	mg/kg	ND	0.50	04/14/13 18:58	
Carbon tetrachloride	mg/kg	ND	0.050	04/14/13 18:58	
Chlorobenzene	mg/kg	ND	0.050	04/14/13 18:58	
Chloroethane	mg/kg	ND	0.50	04/14/13 18:58	
Chloroform	mg/kg	ND	0.050	04/14/13 18:58	
Chloromethane	mg/kg	ND	0.20	04/14/13 18:58	
cis-1,2-Dichloroethene	mg/kg	ND	0.050	04/14/13 18:58	
cis-1,3-Dichloropropene	mg/kg	ND	0.050	04/14/13 18:58	
Dibromochloromethane	mg/kg	ND	0.050	04/14/13 18:58	
Dibromomethane	mg/kg	ND	0.050	04/14/13 18:58	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

METHOD BLANK: 1409601

Matrix: Solid

Associated Lab Samples: 10225292003, 10225292004, 10225292005, 10225292006, 10225292008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	mg/kg	ND	0.050	04/14/13 18:58	
Dichlorofluoromethane	mg/kg	ND	0.50	04/14/13 18:58	
Diethyl ether (Ethyl ether)	mg/kg	ND	0.20	04/14/13 18:58	
Ethylbenzene	mg/kg	ND	0.050	04/14/13 18:58	
Hexachloro-1,3-butadiene	mg/kg	ND	0.25	04/14/13 18:58	
Isopropylbenzene (Cumene)	mg/kg	ND	0.050	04/14/13 18:58	
Methyl-tert-butyl ether	mg/kg	ND	0.050	04/14/13 18:58	
Methylene Chloride	mg/kg	ND	0.20	04/14/13 18:58	
n-Butylbenzene	mg/kg	ND	0.050	04/14/13 18:58	
n-Propylbenzene	mg/kg	ND	0.050	04/14/13 18:58	
Naphthalene	mg/kg	ND	0.20	04/14/13 18:58	
p-Isopropyltoluene	mg/kg	ND	0.050	04/14/13 18:58	
sec-Butylbenzene	mg/kg	ND	0.050	04/14/13 18:58	
Styrene	mg/kg	ND	0.050	04/14/13 18:58	
tert-Butylbenzene	mg/kg	ND	0.050	04/14/13 18:58	
Tetrachloroethene	mg/kg	ND	0.050	04/14/13 18:58	
Tetrahydrofuran	mg/kg	ND	2.0	04/14/13 18:58	
Toluene	mg/kg	ND	0.050	04/14/13 18:58	
trans-1,2-Dichloroethene	mg/kg	ND	0.050	04/14/13 18:58	
trans-1,3-Dichloropropene	mg/kg	ND	0.050	04/14/13 18:58	
Trichloroethene	mg/kg	ND	0.050	04/14/13 18:58	
Trichlorofluoromethane	mg/kg	ND	0.20	04/14/13 18:58	
Vinyl chloride	mg/kg	ND	0.020	04/14/13 18:58	
Xylene (Total)	mg/kg	ND	0.15	04/14/13 18:58	
1,2-Dichloroethane-d4 (S)	%	98	57-150	04/14/13 18:58	
4-Bromofluorobenzene (S)	%	97	67-138	04/14/13 18:58	
Toluene-d8 (S)	%	97	70-136	04/14/13 18:58	

LABORATORY CONTROL SAMPLE & LCSD: 1409602

1409603

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	1	0.90	0.97	90	97	72-125	7	20	
1,1,1-Trichloroethane	mg/kg	1	0.92	1.0	92	100	72-125	8	20	
1,1,2,2-Tetrachloroethane	mg/kg	1	0.86	0.95	86	95	73-125	10	20	
1,1,2-Trichloroethane	mg/kg	1	0.88	0.94	88	94	75-125	6	20	
1,1,2-Trichlorotrifluoroethane	mg/kg	1	0.99	1.0	99	105	65-127	6	20	
1,1-Dichloroethane	mg/kg	1	0.87	0.97	87	97	73-125	11	20	
1,1-Dichloroethene	mg/kg	1	0.89	0.95	89	95	68-125	7	20	
1,1-Dichloropropene	mg/kg	1	0.89	0.98	89	98	71-125	10	20	
1,2,3-Trichlorobenzene	mg/kg	1	0.91	0.96	91	96	66-125	6	20	
1,2,3-Trichloropropane	mg/kg	1	0.92	0.97	92	97	72-125	5	20	
1,2,4-Trichlorobenzene	mg/kg	1	0.88	0.93	88	93	69-125	5	20	
1,2,4-Trimethylbenzene	mg/kg	1	0.85	0.89	85	89	74-125	5	20	
1,2-Dibromo-3-chloropropane	mg/kg	2.5	2.3	2.4	93	98	65-125	5	20	
1,2-Dibromoethane (EDB)	mg/kg	1	0.89	0.95	89	95	75-125	6	20	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

LABORATORY CONTROL SAMPLE & LCSD:		1409602 1409603								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dichlorobenzene	mg/kg	1	0.87	0.94	87	94	74-125	8	20	
1,2-Dichloroethane	mg/kg	1	0.91	0.99	91	99	72-125	8	20	
1,2-Dichloropropane	mg/kg	1	0.87	0.95	87	95	74-125	9	20	
1,3,5-Trimethylbenzene	mg/kg	1	0.85	0.90	85	90	73-125	6	20	
1,3-Dichlorobenzene	mg/kg	1	0.88	0.95	88	95	74-125	7	20	
1,3-Dichloropropane	mg/kg	1	0.87	0.93	87	93	75-125	6	20	
1,4-Dichlorobenzene	mg/kg	1	0.87	0.93	87	93	75-125	6	20	
2,2-Dichloropropane	mg/kg	1	0.95	1.0	95	101	62-135	7	20	
2-Butanone (MEK)	mg/kg	5	4.6	4.9	93	99	58-126	6	20	
2-Chlorotoluene	mg/kg	1	0.85	0.91	85	91	74-125	8	20	
4-Chlorotoluene	mg/kg	1	0.85	0.92	85	92	74-125	8	20	
4-Methyl-2-pentanone (MIBK)	mg/kg	5	4.4	4.7	87	93	66-125	7	20	
Acetone	mg/kg	5	4.7	5.0	94	99	63-128	6	20	
Allyl chloride	mg/kg	1	0.88	0.96	88	96	66-132	8	20	
Benzene	mg/kg	1	0.88	0.95	88	95	72-125	8	20	
Bromobenzene	mg/kg	1	0.90	0.95	90	95	74-125	6	20	
Bromo(chloromethane	mg/kg	1	0.93	1.0	93	104	72-125	12	20	
Bromodichloromethane	mg/kg	1	0.92	0.99	92	99	72-125	7	20	
Bromoform	mg/kg	1	0.89	0.95	89	95	63-125	6	20	
Bromomethane	mg/kg	1	0.87	0.88	87	88	58-125	.7	20	
Carbon tetrachloride	mg/kg	1	0.92	0.99	92	99	66-125	7	20	
Chlorobenzene	mg/kg	1	0.88	0.94	88	94	75-125	7	20	
Chloroethane	mg/kg	1	0.94	0.94	94	94	67-125	.05	20	
Chloroform	mg/kg	1	0.91	0.99	91	99	73-125	8	20	
Chloromethane	mg/kg	1	0.83	0.81	83	81	60-125	1	20	
cis-1,2-Dichloroethene	mg/kg	1	0.92	1.0	92	102	73-125	10	20	
cis-1,3-Dichloropropene	mg/kg	1	0.92	0.97	92	97	73-125	6	20	
Dibromochloromethane	mg/kg	1	0.94	1.0	94	101	69-125	8	20	
Dibromomethane	mg/kg	1	0.92	0.99	92	99	75-125	8	20	
Dichlorodifluoromethane	mg/kg	1	0.80	0.79	80	79	44-125	2	20	
Dichlorofluoromethane	mg/kg	1	1.0	1.0	103	104	67-142	1	20	
Diethyl ether (Ethyl ether)	mg/kg	1	0.86	0.93	86	93	69-125	7	20	
Ethylbenzene	mg/kg	1	0.87	0.94	87	94	75-125	8	20	
Hexachloro-1,3-butadiene	mg/kg	1	0.90	0.96	90	96	62-126	6	20	
Isopropylbenzene (Cumene)	mg/kg	1	0.87	0.93	87	93	74-125	7	20	
Methyl-tert-butyl ether	mg/kg	1	0.90	0.99	90	99	71-125	9	20	
Methylene Chloride	mg/kg	1	0.87	0.95	87	95	72-125	9	20	
n-Butylbenzene	mg/kg	1	0.83	0.90	83	90	70-125	8	20	
n-Propylbenzene	mg/kg	1	0.84	0.90	84	90	74-125	7	20	
Naphthalene	mg/kg	1	0.87	0.93	87	93	69-125	7	20	
p-Isopropyltoluene	mg/kg	1	0.85	0.91	85	91	70-125	7	20	
sec-Butylbenzene	mg/kg	1	0.83	0.89	83	89	71-125	7	20	
Styrene	mg/kg	1	0.87	0.96	87	96	74-125	9	20	
tert-Butylbenzene	mg/kg	1	0.84	0.90	84	90	71-125	6	20	
Tetrachloroethene	mg/kg	1	0.89	0.97	89	97	73-125	8	20	
Tetrahydrofuran	mg/kg	10	9.1	9.7	91	97	65-125	6	20	
Toluene	mg/kg	1	0.86	0.93	86	93	75-125	7	20	
trans-1,2-Dichloroethene	mg/kg	1	0.93	0.97	93	97	71-125	4	20	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

LABORATORY CONTROL SAMPLE & LCSD:		1409603								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
trans-1,3-Dichloropropene	mg/kg	1	0.91	0.97	91	97	75-125	7	20	
Trichloroethene	mg/kg	1	0.94	1.0	94	100	74-125	6	20	
Trichlorofluoromethane	mg/kg	1	1.1	1.1	106	108	64-125	2	20	
Vinyl chloride	mg/kg	1	0.84	0.83	84	83	65-125	.5	20	
Xylene (Total)	mg/kg	3	2.6	2.8	88	94	75-125	7	20	
1,2-Dichloroethane-d4 (S)	%				99	99	57-150			
4-Bromofluorobenzene (S)	%				97	97	67-138			
Toluene-d8 (S)	%				97	97	70-136			

MATRIX SPIKE SAMPLE:		1409604							
Parameter	Units	10225292003		Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
1,1,1,2-Tetrachloroethane	mg/kg		ND	1.3	1.4	109	75-134		
1,1,1-Trichloroethane	mg/kg		ND	1.3	1.4	111	71-141		
1,1,2,2-Tetrachloroethane	mg/kg		ND	1.3	1.4	110	66-137		
1,1,2-Trichloroethane	mg/kg		ND	1.3	1.4	107	68-139		
1,1,2-Trichlorotrifluoroethane	mg/kg		ND	1.3	1.5	116	59-153		
1,1-Dichloroethane	mg/kg		ND	1.3	1.3	106	72-138		
1,1-Dichloroethene	mg/kg		ND	1.3	1.4	108	59-143		
1,1-Dichloropropene	mg/kg		ND	1.3	1.4	108	68-143		
1,2,3-Trichlorobenzene	mg/kg		ND	1.3	1.4	108	65-137		
1,2,3-Trichloropropane	mg/kg		ND	1.3	1.4	109	74-133		
1,2,4-Trichlorobenzene	mg/kg		ND	1.3	1.3	106	66-138		
1,2,4-Trimethylbenzene	mg/kg		ND	1.3	1.3	102	74-135		
1,2-Dibromo-3-chloropropane	mg/kg		ND	3.2	3.8	120	67-137		
1,2-Dibromoethane (EDB)	mg/kg		ND	1.3	1.4	110	76-130		
1,2-Dichlorobenzene	mg/kg		ND	1.3	1.3	105	73-134		
1,2-Dichloroethane	mg/kg		ND	1.3	1.4	111	66-138		
1,2-Dichloropropane	mg/kg		ND	1.3	1.3	104	74-135		
1,3,5-Trimethylbenzene	mg/kg		ND	1.3	1.3	104	71-139		
1,3-Dichlorobenzene	mg/kg		ND	1.3	1.4	109	72-134		
1,3-Dichloropropene	mg/kg		ND	1.3	1.3	105	75-131		
1,4-Dichlorobenzene	mg/kg		ND	1.3	1.4	107	73-133		
2,2-Dichloropropane	mg/kg		ND	1.3	1.5	114	52-153		
2-Butanone (MEK)	mg/kg		ND	6.4	7.3	114	59-138		
2-Chlorotoluene	mg/kg		ND	1.3	1.3	103	73-135		
4-Chlorotoluene	mg/kg		ND	1.3	1.3	104	73-134		
4-Methyl-2-pentanone (MIBK)	mg/kg		ND	6.4	7.0	110	69-136		
Acetone	mg/kg		ND	6.4	7.0	111	63-142		
Allyl chloride	mg/kg		ND	1.3	1.4	108	64-143		
Benzene	mg/kg		ND	1.3	1.3	106	71-137		
Bromobenzene	mg/kg		ND	1.3	1.4	108	75-133		
Bromochloromethane	mg/kg		ND	1.3	1.4	114	67-139		
Bromodichloromethane	mg/kg		ND	1.3	1.4	110	72-138		
Bromoform	mg/kg		ND	1.3	1.4	110	71-132		
Bromomethane	mg/kg		ND	1.3	1.4	111	56-134		
Carbon tetrachloride	mg/kg		ND	1.3	1.4	111	64-146		

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

MATRIX SPIKE SAMPLE: 1409604

Parameter	Units	10225292003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	mg/kg	ND	1.3	1.3	105	75-131	
Chloroethane	mg/kg	ND	1.3	1.5	115	50-146	
Chloroform	mg/kg	ND	1.3	1.4	111	72-137	
Chloromethane	mg/kg	ND	1.3	1.3	99	54-123	
cis-1,2-Dichloroethene	mg/kg	ND	1.3	1.4	112	70-136	
cis-1,3-Dichloropropene	mg/kg	ND	1.3	1.4	109	71-137	
Dibromochloromethane	mg/kg	ND	1.3	1.5	115	69-137	
Dibromomethane	mg/kg	ND	1.3	1.4	110	73-135	
Dichlorodifluoromethane	mg/kg	ND	1.3	1.2	94	47-150	
Dichlorofluoromethane	mg/kg	ND	1.3	1.6	125	30-128	
Diethyl ether (Ethyl ether)	mg/kg	ND	1.3	1.4	109	62-138	
Ethylbenzene	mg/kg	ND	1.3	1.3	103	75-134	
Hexachloro-1,3-butadiene	mg/kg	ND	1.3	1.4	111	54-150	
Isopropylbenzene (Cumene)	mg/kg	ND	1.3	1.3	102	75-136	
Methyl-tert-butyl ether	mg/kg	ND	1.3	1.4	112	65-140	
Methylene Chloride	mg/kg	ND	1.3	1.3	104	66-136	
n-Butylbenzene	mg/kg	ND	1.3	1.3	101	69-141	
n-Propylbenzene	mg/kg	ND	1.3	1.3	100	71-140	
Naphthalene	mg/kg	ND	1.3	1.4	108	67-138	
p-Isopropyltoluene	mg/kg	ND	1.3	1.3	101	65-144	
sec-Butylbenzene	mg/kg	ND	1.3	1.3	100	63-146	
Styrene	mg/kg	ND	1.3	1.3	106	67-139	
tert-Butylbenzene	mg/kg	ND	1.3	1.3	102	71-137	
Tetrachloroethene	mg/kg	ND	1.3	1.4	107	72-138	
Tetrahydrofuran	mg/kg	ND	12.7	14.7	116	62-139	
Toluene	mg/kg	ND	1.3	1.3	104	74-133	
trans-1,2-Dichloroethene	mg/kg	ND	1.3	1.3	105	72-135	
trans-1,3-Dichloropropene	mg/kg	ND	1.3	1.4	110	66-140	
Trichloroethene	mg/kg	ND	1.3	1.4	113	72-142	
Trichlorofluoromethane	mg/kg	ND	1.3	1.7	130	53-146	
Vinyl chloride	mg/kg	ND	1.3	1.3	101	46-135	
Xylene (Total)	mg/kg	ND	3.9	4.0	104	75-135	
1,2-Dichloroethane-d4 (S)	%				99	57-150	
4-Bromofluorobenzene (S)	%				98	67-138	
Toluene-d8 (S)	%				96	70-136	

SAMPLE DUPLICATE: 1409605

Parameter	Units	10225292004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	ND		30	
1,1,1-Trichloroethane	mg/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	mg/kg	ND	ND		30	
1,1,2-Trichloroethane	mg/kg	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	ND		30	
1,1-Dichloroethane	mg/kg	ND	ND		30	
1,1-Dichloroethene	mg/kg	ND	ND		30	
1,1-Dichloropropene	mg/kg	ND	ND		30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

SAMPLE DUPLICATE: 1409605

Parameter	Units	10225292004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2,3-Trichlorobenzene	mg/kg	ND	ND		30	
1,2,3-Trichloropropane	mg/kg	ND	ND		30	
1,2,4-Trichlorobenzene	mg/kg	ND	ND		30	
1,2,4-Trimethylbenzene	mg/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	mg/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	mg/kg	ND	ND		30	
1,2-Dichlorobenzene	mg/kg	ND	ND		30	
1,2-Dichloroethane	mg/kg	ND	ND		30	
1,2-Dichloropropane	mg/kg	ND	ND		30	
1,3,5-Trimethylbenzene	mg/kg	ND	ND		30	
1,3-Dichlorobenzene	mg/kg	ND	ND		30	
1,3-Dichloropropane	mg/kg	ND	ND		30	
1,4-Dichlorobenzene	mg/kg	ND	ND		30	
2,2-Dichloropropane	mg/kg	ND	ND		30	
2-Butanone (MEK)	mg/kg	ND	ND		30	
2-Chlorotoluene	mg/kg	ND	ND		30	
4-Chlorotoluene	mg/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	ND		30	
Acetone	mg/kg	ND	ND		30	
Allyl chloride	mg/kg	ND	ND		30	
Benzene	mg/kg	ND	ND		30	
Bromobenzene	mg/kg	ND	ND		30	
Bromochloromethane	mg/kg	ND	ND		30	
Bromodichloromethane	mg/kg	ND	ND		30	
Bromoform	mg/kg	ND	ND		30	
Bromomethane	mg/kg	ND	ND		30	
Carbon tetrachloride	mg/kg	ND	ND		30	
Chlorobenzene	mg/kg	ND	ND		30	
Chloroethane	mg/kg	ND	ND		30	
Chloroform	mg/kg	ND	ND		30	
Chloromethane	mg/kg	ND	ND		30	
cis-1,2-Dichloroethene	mg/kg	ND	ND		30	
cis-1,3-Dichloropropene	mg/kg	ND	ND		30	
Dibromochloromethane	mg/kg	ND	ND		30	
Dibromomethane	mg/kg	ND	ND		30	
Dichlorodifluoromethane	mg/kg	ND	ND		30	
Dichlorofluoromethane	mg/kg	ND	ND		30	
Diethyl ether (Ethyl ether)	mg/kg	ND	ND		30	
Ethylbenzene	mg/kg	ND	ND		30	
Hexachloro-1,3-butadiene	mg/kg	ND	ND		30	
Isopropylbenzene (Cumene)	mg/kg	ND	ND		30	
Methyl-tert-butyl ether	mg/kg	ND	ND		30	
Methylene Chloride	mg/kg	ND	ND		30	
n-Butylbenzene	mg/kg	ND	ND		30	
n-Propylbenzene	mg/kg	ND	ND		30	
Naphthalene	mg/kg	ND	ND		30	
p-Isopropyltoluene	mg/kg	ND	ND		30	
sec-Butylbenzene	mg/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

SAMPLE DUPLICATE: 1409605

Parameter	Units	10225292004 Result	Dup Result	RPD	Max RPD	Qualifiers
Styrene	mg/kg	ND	ND		30	
tert-Butylbenzene	mg/kg	ND	ND		30	
Tetrachloroethene	mg/kg	ND	ND		30	
Tetrahydrofuran	mg/kg	ND	ND		30	
Toluene	mg/kg	ND	ND		30	
trans-1,2-Dichloroethene	mg/kg	ND	ND		30	
trans-1,3-Dichloropropene	mg/kg	ND	ND		30	
Trichloroethene	mg/kg	ND	ND		30	
Trichlorofluoromethane	mg/kg	ND	ND		30	
Vinyl chloride	mg/kg	ND	ND		30	
Xylene (Total)	mg/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	99	97	1		
4-Bromofluorobenzene (S)	%	97	97	3		
Toluene-d8 (S)	%	96	96	3		

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

QC Batch:	MSV/23382	Analysis Method:	EPA 8260
QC Batch Method:	EPA 5035/5030B	Analysis Description:	8260 MSV 5030 Med Level
Associated Lab Samples:	10225292010, 10225292013, 10225292015, 10225292018, 10225292020, 10225292021, 10225292022, 10225292024		

METHOD BLANK: 1410432	Matrix: Solid
Associated Lab Samples:	10225292010, 10225292013, 10225292015, 10225292018, 10225292020, 10225292021, 10225292022, 10225292024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.050	04/16/13 16:10	
1,1,1-Trichloroethane	mg/kg	ND	0.050	04/16/13 16:10	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.050	04/16/13 16:10	
1,1,2-Trichloroethane	mg/kg	ND	0.050	04/16/13 16:10	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.050	04/16/13 16:10	
1,1-Dichloroethane	mg/kg	ND	0.050	04/16/13 16:10	
1,1-Dichloroethene	mg/kg	ND	0.050	04/16/13 16:10	
1,1-Dichloropropene	mg/kg	ND	0.050	04/16/13 16:10	
1,2,3-Trichlorobenzene	mg/kg	ND	0.050	04/16/13 16:10	
1,2,3-Trichloropropane	mg/kg	ND	0.20	04/16/13 16:10	
1,2,4-Trichlorobenzene	mg/kg	ND	0.050	04/16/13 16:10	
1,2,4-Trimethylbenzene	mg/kg	ND	0.050	04/16/13 16:10	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.20	04/16/13 16:10	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.050	04/16/13 16:10	
1,2-Dichlorobenzene	mg/kg	ND	0.050	04/16/13 16:10	
1,2-Dichloroethane	mg/kg	ND	0.050	04/16/13 16:10	
1,2-Dichloropropene	mg/kg	ND	0.050	04/16/13 16:10	
1,3,5-Trimethylbenzene	mg/kg	ND	0.050	04/16/13 16:10	
1,3-Dichlorobenzene	mg/kg	ND	0.050	04/16/13 16:10	
1,3-Dichloropropane	mg/kg	ND	0.050	04/16/13 16:10	
1,4-Dichlorobenzene	mg/kg	ND	0.050	04/16/13 16:10	
2,2-Dichloropropane	mg/kg	ND	0.20	04/16/13 16:10	
2-Butanone (MEK)	mg/kg	ND	0.25	04/16/13 16:10	
2-Chlorotoluene	mg/kg	ND	0.050	04/16/13 16:10	
4-Chlorotoluene	mg/kg	ND	0.050	04/16/13 16:10	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.25	04/16/13 16:10	
Acetone	mg/kg	ND	1.0	04/16/13 16:10	
Allyl chloride	mg/kg	ND	0.20	04/16/13 16:10	
Benzene	mg/kg	ND	0.020	04/16/13 16:10	
Bromobenzene	mg/kg	ND	0.050	04/16/13 16:10	
Bromochloromethane	mg/kg	ND	0.050	04/16/13 16:10	
Bromodichloromethane	mg/kg	ND	0.050	04/16/13 16:10	
Bromoform	mg/kg	ND	0.20	04/16/13 16:10	
Bromomethane	mg/kg	ND	0.50	04/16/13 16:10	
Carbon tetrachloride	mg/kg	ND	0.050	04/16/13 16:10	
Chlorobenzene	mg/kg	ND	0.050	04/16/13 16:10	
Chloroethane	mg/kg	ND	0.50	04/16/13 16:10	
Chloroform	mg/kg	ND	0.050	04/16/13 16:10	
Chloromethane	mg/kg	ND	0.20	04/16/13 16:10	
cis-1,2-Dichloroethene	mg/kg	ND	0.050	04/16/13 16:10	
cis-1,3-Dichloropropene	mg/kg	ND	0.050	04/16/13 16:10	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

METHOD BLANK: 1410432

Matrix: Solid

Associated Lab Samples: 10225292010, 10225292013, 10225292015, 10225292018, 10225292020, 10225292021, 10225292022,
10225292024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	mg/kg	ND	0.050	04/16/13 16:10	
Dibromomethane	mg/kg	ND	0.050	04/16/13 16:10	
Dichlorodifluoromethane	mg/kg	ND	0.050	04/16/13 16:10	
Dichlorofluoromethane	mg/kg	ND	0.50	04/16/13 16:10	
Diethyl ether (Ethyl ether)	mg/kg	ND	0.20	04/16/13 16:10	
Ethylbenzene	mg/kg	ND	0.050	04/16/13 16:10	
Hexachloro-1,3-butadiene	mg/kg	ND	0.25	04/16/13 16:10	
Isopropylbenzene (Cumene)	mg/kg	ND	0.050	04/16/13 16:10	
Methyl-tert-butyl ether	mg/kg	ND	0.050	04/16/13 16:10	
Methylene Chloride	mg/kg	ND	0.20	04/16/13 16:10	
n-Butylbenzene	mg/kg	ND	0.050	04/16/13 16:10	
n-Propylbenzene	mg/kg	ND	0.050	04/16/13 16:10	
Naphthalene	mg/kg	ND	0.20	04/16/13 16:10	
p-Isopropyltoluene	mg/kg	ND	0.050	04/16/13 16:10	
sec-Butylbenzene	mg/kg	ND	0.050	04/16/13 16:10	
Styrene	mg/kg	ND	0.050	04/16/13 16:10	
tert-Butylbenzene	mg/kg	ND	0.050	04/16/13 16:10	
Tetrachloroethene	mg/kg	ND	0.050	04/16/13 16:10	
Tetrahydrofuran	mg/kg	ND	2.0	04/16/13 16:10	
Toluene	mg/kg	ND	0.050	04/16/13 16:10	
trans-1,2-Dichloroethene	mg/kg	ND	0.050	04/16/13 16:10	
trans-1,3-Dichloropropene	mg/kg	ND	0.050	04/16/13 16:10	
Trichloroethene	mg/kg	ND	0.050	04/16/13 16:10	
Trichlorofluoromethane	mg/kg	ND	0.20	04/16/13 16:10	
Vinyl chloride	mg/kg	ND	0.020	04/16/13 16:10	
Xylene (Total)	mg/kg	ND	0.15	04/16/13 16:10	
1,2-Dichloroethane-d4 (S)	%	95	57-150	04/16/13 16:10	
4-Bromofluorobenzene (S)	%	98	67-138	04/16/13 16:10	
Toluene-d8 (S)	%	96	70-136	04/16/13 16:10	

LABORATORY CONTROL SAMPLE & LCSD: 1410433

1410434

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	1	0.98	0.98	98	98	72-125	.1	20	
1,1,1-Trichloroethane	mg/kg	1	0.97	0.96	97	96	72-125	1	20	
1,1,2,2-Tetrachloroethane	mg/kg	1	0.93	0.92	93	92	73-125	2	20	
1,1,2-Trichloroethane	mg/kg	1	0.93	0.93	93	93	75-125	.2	20	
1,1,2-Trichlorotrifluoroethane	mg/kg	1	1.0	1.0	100	100	65-127	.4	20	
1,1-Dichloroethane	mg/kg	1	0.91	0.89	91	89	73-125	2	20	
1,1-Dichloroethene	mg/kg	1	0.91	0.91	91	91	68-125	.3	20	
1,1-Dichloropropene	mg/kg	1	0.93	0.91	93	91	71-125	1	20	
1,2,3-Trichlorobenzene	mg/kg	1	0.93	0.91	93	91	66-125	2	20	
1,2,3-Trichloropropane	mg/kg	1	1.0	0.93	100	93	72-125	6	20	
1,2,4-Trichlorobenzene	mg/kg	1	0.92	0.91	92	91	69-125	2	20	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

LABORATORY CONTROL SAMPLE & LCSD:		1410433 1410434								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	1	0.89	0.88	89	88	74-125	2	20	
1,2-Dibromo-3-chloropropane	mg/kg	2.5	2.6	2.5	102	100	65-125	2	20	
1,2-Dibromoethane (EDB)	mg/kg	1	0.95	0.96	95	96	75-125	1	20	
1,2-Dichlorobenzene	mg/kg	1	0.91	0.91	91	91	74-125	.3	20	
1,2-Dichloroethane	mg/kg	1	0.96	0.92	96	92	72-125	4	20	
1,2-Dichloropropane	mg/kg	1	0.91	0.92	91	92	74-125	1	20	
1,3,5-Trimethylbenzene	mg/kg	1	0.89	0.89	89	89	73-125	.3	20	
1,3-Dichlorobenzene	mg/kg	1	0.91	0.93	91	93	74-125	2	20	
1,3-Dichloropropane	mg/kg	1	0.91	0.90	91	90	75-125	1	20	
1,4-Dichlorobenzene	mg/kg	1	0.91	0.91	91	91	75-125	.3	20	
2,2-Dichloropropane	mg/kg	1	0.95	0.95	95	95	62-135	.05	20	
2-Butanone (MEK)	mg/kg	5	4.8	4.4	95	88	58-126	8	20	
2-Chlorotoluene	mg/kg	1	0.90	0.89	90	89	74-125	2	20	
4-Chlorotoluene	mg/kg	1	0.89	0.88	89	88	74-125	.9	20	
4-Methyl-2-pentanone (MIBK)	mg/kg	5	4.7	4.6	94	91	66-125	3	20	
Acetone	mg/kg	5	4.8	5.2	97	103	63-128	7	20	
Allyl chloride	mg/kg	1	0.93	0.93	93	93	66-132	.008	20	
Benzene	mg/kg	1	0.91	0.89	91	89	72-125	2	20	
Bromobenzene	mg/kg	1	0.94	0.93	94	93	74-125	1	20	
Bromochloromethane	mg/kg	1	0.96	0.96	96	96	72-125	.1	20	
Bromodichloromethane	mg/kg	1	1.0	1.0	101	100	72-125	.4	20	
Bromoform	mg/kg	1	1.0	1.0	102	101	63-125	.3	20	
Bromomethane	mg/kg	1	0.89	0.88	89	88	58-125	1	20	
Carbon tetrachloride	mg/kg	1	1.0	0.99	101	99	66-125	2	20	
Chlorobenzene	mg/kg	1	0.93	0.92	93	92	75-125	.9	20	
Chloroethane	mg/kg	1	0.96	0.90	96	90	67-125	7	20	
Chloroform	mg/kg	1	0.95	0.93	95	93	73-125	2	20	
Chloromethane	mg/kg	1	0.82	0.77	82	77	60-125	6	20	
cis-1,2-Dichloroethene	mg/kg	1	0.95	0.94	95	94	73-125	1	20	
cis-1,3-Dichloropropene	mg/kg	1	0.97	0.98	97	98	73-125	.8	20	
Dibromochloromethane	mg/kg	1	1.1	1.1	108	105	69-125	3	20	
Dibromomethane	mg/kg	1	0.99	0.98	99	98	75-125	.5	20	
Dichlorodifluoromethane	mg/kg	1	0.78	0.76	78	76	44-125	3	20	
Dichlorofluoromethane	mg/kg	1	1.0	1.0	103	101	67-142	2	20	
Diethyl ether (Ethyl ether)	mg/kg	1	0.90	0.87	90	87	69-125	4	20	
Ethylbenzene	mg/kg	1	0.89	0.92	89	92	75-125	4	20	
Hexachloro-1,3-butadiene	mg/kg	1	0.98	0.95	98	95	62-126	3	20	
Isopropylbenzene (Cumene)	mg/kg	1	0.91	0.91	91	91	74-125	.2	20	
Methyl-tert-butyl ether	mg/kg	1	0.93	0.92	93	92	71-125	1	20	
Methylene Chloride	mg/kg	1	0.89	0.88	89	88	72-125	1	20	
n-Butylbenzene	mg/kg	1	0.88	0.87	88	87	70-125	1	20	
n-Propylbenzene	mg/kg	1	0.88	0.86	88	86	74-125	2	20	
Naphthalene	mg/kg	1	0.91	0.88	91	88	69-125	3	20	
p-Isopropyltoluene	mg/kg	1	0.90	0.88	90	88	70-125	2	20	
sec-Butylbenzene	mg/kg	1	0.88	0.87	88	87	71-125	2	20	
Styrene	mg/kg	1	0.92	0.93	92	93	74-125	1	20	
tert-Butylbenzene	mg/kg	1	0.90	0.89	90	89	71-125	1	20	
Tetrachloroethene	mg/kg	1	0.94	0.97	94	97	73-125	3	20	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

LABORATORY CONTROL SAMPLE & LCSD:		1410433								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Tetrahydrofuran	mg/kg	10	9.6	8.9	96	89	65-125	7	20	
Toluene	mg/kg	1	0.90	0.93	90	93	75-125	3	20	
trans-1,2-Dichloroethene	mg/kg	1	0.91	0.93	91	93	71-125	2	20	
trans-1,3-Dichloropropene	mg/kg	1	0.97	0.97	97	97	75-125	.09	20	
Trichloroethene	mg/kg	1	0.97	0.99	97	99	74-125	3	20	
Trichlorofluoromethane	mg/kg	1	1.1	1.1	111	106	64-125	5	20	
Vinyl chloride	mg/kg	1	0.85	0.79	85	79	65-125	7	20	
Xylene (Total)	mg/kg	3	2.8	2.8	92	94	75-125	1	20	
1,2-Dichloroethane-d4 (S)	%				96	94	57-150			
4-Bromofluorobenzene (S)	%				98	97	67-138			
Toluene-d8 (S)	%				96	97	70-136			

MATRIX SPIKE SAMPLE:		1410435							
Parameter	Units	10225292010		Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
1,1,1,2-Tetrachloroethane	mg/kg		ND	1.1	1.0	90	75-134		
1,1,1-Trichloroethane	mg/kg		ND	1.1	0.98	88	71-141		
1,1,2,2-Tetrachloroethane	mg/kg		ND	1.1	0.93	83	66-137		
1,1,2-Trichloroethane	mg/kg		ND	1.1	0.95	85	68-139		
1,1,2-Trichlorotrifluoroethane	mg/kg		ND	1.1	1.0	91	59-153		
1,1-Dichloroethane	mg/kg		ND	1.1	0.91	82	72-138		
1,1-Dichloroethene	mg/kg		ND	1.1	0.94	84	59-143		
1,1-Dichloropropene	mg/kg		ND	1.1	0.93	83	68-143		
1,2,3-Trichlorobenzene	mg/kg		ND	1.1	0.97	87	65-137		
1,2,3-Trichloropropane	mg/kg		ND	1.1	0.98	88	74-133		
1,2,4-Trichlorobenzene	mg/kg		ND	1.1	0.97	87	66-138		
1,2,4-Trimethylbenzene	mg/kg		ND	1.1	0.91	81	74-135		
1,2-Dibromo-3-chloropropane	mg/kg		ND	2.8	2.6	92	67-137		
1,2-Dibromoethane (EDB)	mg/kg		ND	1.1	0.96	86	76-130		
1,2-Dichlorobenzene	mg/kg		ND	1.1	0.95	85	73-134		
1,2-Dichloroethane	mg/kg		ND	1.1	0.94	84	66-138		
1,2-Dichloropropene	mg/kg		ND	1.1	0.94	84	74-135		
1,3,5-Trimethylbenzene	mg/kg		ND	1.1	0.92	82	71-139		
1,3-Dichlorobenzene	mg/kg		ND	1.1	0.94	84	72-134		
1,3-Dichloropropane	mg/kg		ND	1.1	0.96	86	75-131		
1,4-Dichlorobenzene	mg/kg		ND	1.1	0.94	84	73-133		
2,2-Dichloropropane	mg/kg		ND	1.1	0.98	88	52-153		
2-Butanone (MEK)	mg/kg		ND	5.5	4.7	84	59-138		
2-Chlorotoluene	mg/kg		ND	1.1	0.91	82	73-135		
4-Chlorotoluene	mg/kg		ND	1.1	0.90	81	73-134		
4-Methyl-2-pentanone (MIBK)	mg/kg		ND	5.5	4.6	82	69-136		
Acetone	mg/kg		ND	5.5	5.1	91	63-142		
Allyl chloride	mg/kg		ND	1.1	0.92	82	64-143		
Benzene	mg/kg		ND	1.1	0.91	81	71-137		
Bromobenzene	mg/kg		ND	1.1	0.94	85	75-133		
Bromochloromethane	mg/kg		ND	1.1	1.0	89	67-139		
Bromodichloromethane	mg/kg		ND	1.1	1.0	90	72-138		

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

MATRIX SPIKE SAMPLE: 1410435

Parameter	Units	10225292010		Spike	MS	MS	% Rec	Qualifiers
		Result	Conc.	Result	% Rec	Limits		
Bromoform	mg/kg	ND	1.1	1.0	92	71-132		
Bromomethane	mg/kg	ND	1.1	0.93	84	56-134		
Carbon tetrachloride	mg/kg	ND	1.1	0.99	89	64-146		
Chlorobenzene	mg/kg	ND	1.1	0.94	84	75-131		
Chloroethane	mg/kg	ND	1.1	0.94	84	50-146		
Chloroform	mg/kg	ND	1.1	0.95	85	72-137		
Chloromethane	mg/kg	ND	1.1	0.80	72	54-123		
cis-1,2-Dichloroethene	mg/kg	ND	1.1	0.96	86	70-136		
cis-1,3-Dichloropropene	mg/kg	ND	1.1	0.98	88	71-137		
Dibromochloromethane	mg/kg	ND	1.1	1.1	95	69-137		
Dibromomethane	mg/kg	ND	1.1	0.99	89	73-135		
Dichlorodifluoromethane	mg/kg	ND	1.1	0.77	69	47-150		
Dichlorofluoromethane	mg/kg	ND	1.1	1.1	94	30-128		
Diethyl ether (Ethyl ether)	mg/kg	ND	1.1	0.92	82	62-138		
Ethylbenzene	mg/kg	ND	1.1	0.92	83	75-134		
Hexachloro-1,3-butadiene	mg/kg	ND	1.1	1.1	98	54-150		
Isopropylbenzene (Cumene)	mg/kg	ND	1.1	0.94	84	75-136		
Methyl-tert-butyl ether	mg/kg	ND	1.1	0.95	85	65-140		
Methylene Chloride	mg/kg	ND	1.1	0.91	82	66-136		
n-Butylbenzene	mg/kg	ND	1.1	0.91	82	69-141		
n-Propylbenzene	mg/kg	ND	1.1	0.89	80	71-140		
Naphthalene	mg/kg	ND	1.1	0.93	83	67-138		
p-Isopropyltoluene	mg/kg	ND	1.1	0.92	83	65-144		
sec-Butylbenzene	mg/kg	ND	1.1	0.92	82	63-146		
Styrene	mg/kg	ND	1.1	0.95	85	67-139		
tert-Butylbenzene	mg/kg	ND	1.1	0.92	82	71-137		
Tetrachloroethene	mg/kg	ND	1.1	0.98	88	72-138		
Tetrahydrofuran	mg/kg	ND	11.2	9.4	84	62-139		
Toluene	mg/kg	ND	1.1	0.93	83	74-133		
trans-1,2-Dichloroethene	mg/kg	ND	1.1	0.98	88	72-135		
trans-1,3-Dichloropropene	mg/kg	ND	1.1	0.95	85	66-140		
Trichloroethene	mg/kg	ND	1.1	1.0	89	72-142		
Trichlorofluoromethane	mg/kg	ND	1.1	1.1	97	53-146		
Vinyl chloride	mg/kg	ND	1.1	0.82	73	46-135		
Xylene (Total)	mg/kg	ND	3.3	2.8	84	75-135		
1,2-Dichloroethane-d4 (S)	%				94	57-150		
4-Bromofluorobenzene (S)	%				97	67-138		
Toluene-d8 (S)	%				97	70-136		

SAMPLE DUPLICATE: 1410436

Parameter	Units	10225292013		Dup	Max	RPD	Qualifiers
		Result	Result	Result			
1,1,1,2-Tetrachloroethane	mg/kg	ND	ND	ND	30		
1,1,1-Trichloroethane	mg/kg	ND	ND	ND	30		
1,1,2,2-Tetrachloroethane	mg/kg	ND	ND	ND	30		
1,1,2-Trichloroethane	mg/kg	ND	ND	ND	30		
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	ND	ND	30		

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

SAMPLE DUPLICATE: 1410436

Parameter	Units	10225292013 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethane	mg/kg	ND	ND		30	
1,1-Dichloroethene	mg/kg	ND	ND		30	
1,1-Dichloropropene	mg/kg	ND	ND		30	
1,2,3-Trichlorobenzene	mg/kg	ND	ND		30	
1,2,3-Trichloropropane	mg/kg	ND	ND		30	
1,2,4-Trichlorobenzene	mg/kg	ND	ND		30	
1,2,4-Trimethylbenzene	mg/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	mg/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	mg/kg	ND	ND		30	
1,2-Dichlorobenzene	mg/kg	ND	ND		30	
1,2-Dichloroethane	mg/kg	ND	ND		30	
1,2-Dichloropropene	mg/kg	ND	ND		30	
1,3,5-Trimethylbenzene	mg/kg	ND	ND		30	
1,3-Dichlorobenzene	mg/kg	ND	ND		30	
1,3-Dichloropropane	mg/kg	ND	ND		30	
1,4-Dichlorobenzene	mg/kg	ND	ND		30	
2,2-Dichloropropane	mg/kg	ND	ND		30	
2-Butanone (MEK)	mg/kg	ND	ND		30	
2-Chlorotoluene	mg/kg	ND	ND		30	
4-Chlorotoluene	mg/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	ND		30	
Acetone	mg/kg	ND	ND		30	
Allyl chloride	mg/kg	ND	ND		30	
Benzene	mg/kg	ND	ND		30	
Bromobenzene	mg/kg	ND	ND		30	
Bromochloromethane	mg/kg	ND	ND		30	
Bromodichloromethane	mg/kg	ND	ND		30	
Bromoform	mg/kg	ND	ND		30	
Bromomethane	mg/kg	ND	ND		30	
Carbon tetrachloride	mg/kg	ND	ND		30	
Chlorobenzene	mg/kg	ND	ND		30	
Chloroethane	mg/kg	ND	ND		30	
Chloroform	mg/kg	ND	ND		30	
Chloromethane	mg/kg	ND	ND		30	
cis-1,2-Dichloroethene	mg/kg	ND	ND		30	
cis-1,3-Dichloropropene	mg/kg	ND	ND		30	
Dibromochloromethane	mg/kg	ND	ND		30	
Dibromomethane	mg/kg	ND	ND		30	
Dichlorodifluoromethane	mg/kg	ND	ND		30	
Dichlorofluoromethane	mg/kg	ND	ND		30	
Diethyl ether (Ethyl ether)	mg/kg	ND	ND		30	
Ethylbenzene	mg/kg	ND	ND		30	
Hexachloro-1,3-butadiene	mg/kg	ND	ND		30	
Isopropylbenzene (Cumene)	mg/kg	ND	ND		30	
Methyl-tert-butyl ether	mg/kg	ND	ND		30	
Methylene Chloride	mg/kg	ND	ND		30	
n-Butylbenzene	mg/kg	ND	ND		30	
n-Propylbenzene	mg/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

SAMPLE DUPLICATE: 1410436

Parameter	Units	10225292013 Result	Dup Result	RPD	Max RPD	Qualifiers
Naphthalene	mg/kg	ND	ND		30	
p-Isopropyltoluene	mg/kg	ND	ND		30	
sec-Butylbenzene	mg/kg	ND	ND		30	
Styrene	mg/kg	ND	ND		30	
tert-Butylbenzene	mg/kg	ND	ND		30	
Tetrachloroethene	mg/kg	ND	ND		30	
Tetrahydrofuran	mg/kg	ND	ND		30	
Toluene	mg/kg	ND	ND		30	
trans-1,2-Dichloroethene	mg/kg	ND	ND		30	
trans-1,3-Dichloropropene	mg/kg	ND	ND		30	
Trichloroethene	mg/kg	ND	ND		30	
Trichlorofluoromethane	mg/kg	ND	ND		30	
Vinyl chloride	mg/kg	ND	ND		30	
Xylene (Total)	mg/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	94	94	4		
4-Bromofluorobenzene (S)	%	96	97	3		
Toluene-d8 (S)	%	95	95	3		

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

QC Batch:	MSV/23424	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV TCLP
Associated Lab Samples:	10225292005		

METHOD BLANK: 1412971 Matrix: Water

Associated Lab Samples: 10225292005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	04/23/13 07:18	
1,2-Dichloroethane	ug/L	ND	50.0	04/23/13 07:18	
1,4-Dichlorobenzene	ug/L	ND	50.0	04/23/13 07:18	
2-Butanone (MEK)	ug/L	ND	200	04/23/13 07:18	
Benzene	ug/L	ND	50.0	04/23/13 07:18	
Carbon tetrachloride	ug/L	ND	200	04/23/13 07:18	
Chlorobenzene	ug/L	ND	50.0	04/23/13 07:18	
Chloroform	ug/L	ND	50.0	04/23/13 07:18	
Tetrachloroethene	ug/L	ND	50.0	04/23/13 07:18	
Trichloroethene	ug/L	ND	50.0	04/23/13 07:18	
Vinyl chloride	ug/L	ND	20.0	04/23/13 07:18	
1,2-Dichloroethane-d4 (S)	%	98	75-125	04/23/13 07:18	
4-Bromofluorobenzene (S)	%	97	75-125	04/23/13 07:18	
Toluene-d8 (S)	%	99	75-125	04/23/13 07:18	

LABORATORY CONTROL SAMPLE: 1412972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	2500	2290	92	67-125	
1,2-Dichloroethane	ug/L	2500	2470	99	70-125	
1,4-Dichlorobenzene	ug/L	2500	2400	96	73-125	
2-Butanone (MEK)	ug/L	12500	11400	91	60-125	
Benzene	ug/L	2500	2470	99	72-125	
Carbon tetrachloride	ug/L	2500	2600	104	69-125	
Chlorobenzene	ug/L	2500	2440	97	75-125	
Chloroform	ug/L	2500	2520	101	74-125	
Tetrachloroethene	ug/L	2500	2420	97	69-125	
Trichloroethene	ug/L	2500	2560	102	73-125	
Vinyl chloride	ug/L	2500	2220	89	66-126	
1,2-Dichloroethane-d4 (S)	%			95	75-125	
4-Bromofluorobenzene (S)	%			97	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1412973 1412974

Parameter	Units	Result	MS	MSD	MS	MSD	% Rec	MSD	% Rec	% Rec	Max
			Spike Conc.	Spike Conc.							
1,1-Dichloroethene	ug/L	ND	2500	2500	2580	2580	103	103	64-134	.1	30
1,2-Dichloroethane	ug/L	ND	2500	2500	2560	2430	102	97	55-143	5	30
1,4-Dichlorobenzene	ug/L	ND	2500	2500	2440	2390	97	95	75-125	2	30

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1412973 1412974

Parameter	Units	Result	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Limits	Max	
			Spike Conc.	Spike Conc.									Qual
2-Butanone (MEK)	ug/L	ND	12500	12500	12300	12300	98	98	37-150	.2	30		
Benzene	ug/L	ND	2500	2500	2600	2450	104	98	75-125	6	30		
Carbon tetrachloride	ug/L	ND	2500	2500	2990	2800	120	112	58-144	7	30		
Chlorobenzene	ug/L	ND	2500	2500	2540	2450	101	98	75-125	3	30		
Chloroform	ug/L	ND	2500	2500	2690	2510	107	101	61-137	7	30		
Tetrachloroethene	ug/L	ND	2500	2500	2640	2540	106	102	66-129	4	30		
Trichloroethene	ug/L	ND	2500	2500	4700	4620	188	185	30-150	2	30	M1	
Vinyl chloride	ug/L	ND	2500	2500	2500	2260	100	90	72-129	10	30		
1,2-Dichloroethane-d4 (S)	%						97	104	75-125				
4-Bromofluorobenzene (S)	%						97	100	75-125				
Toluene-d8 (S)	%						101	103	75-125				

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

QC Batch:	MSV/23405	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 465 W
Associated Lab Samples:	10225292007, 10225292009, 10225292012, 10225292025		

METHOD BLANK: 1411808 Matrix: Water

Associated Lab Samples: 10225292007, 10225292009, 10225292012, 10225292025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	04/18/13 22:15	
1,1,1-Trichloroethane	ug/L	ND	1.0	04/18/13 22:15	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/18/13 22:15	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/18/13 22:15	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	04/18/13 22:15	
1,1-Dichloroethane	ug/L	ND	1.0	04/18/13 22:15	
1,1-Dichloroethene	ug/L	ND	1.0	04/18/13 22:15	
1,1-Dichloropropene	ug/L	ND	1.0	04/18/13 22:15	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	04/18/13 22:15	
1,2,3-Trichloropropane	ug/L	ND	4.0	04/18/13 22:15	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	04/18/13 22:15	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	04/18/13 22:15	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	04/18/13 22:15	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	04/18/13 22:15	
1,2-Dichlorobenzene	ug/L	ND	1.0	04/18/13 22:15	
1,2-Dichloroethane	ug/L	ND	1.0	04/18/13 22:15	
1,2-Dichloropropane	ug/L	ND	4.0	04/18/13 22:15	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	04/18/13 22:15	
1,3-Dichlorobenzene	ug/L	ND	1.0	04/18/13 22:15	
1,3-Dichloropropane	ug/L	ND	1.0	04/18/13 22:15	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/18/13 22:15	
2,2-Dichloropropane	ug/L	ND	4.0	04/18/13 22:15	
2-Butanone (MEK)	ug/L	ND	5.0	04/18/13 22:15	
2-Chlorotoluene	ug/L	ND	1.0	04/18/13 22:15	
4-Chlorotoluene	ug/L	ND	1.0	04/18/13 22:15	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	04/18/13 22:15	
Acetone	ug/L	ND	20.0	04/18/13 22:15	
Allyl chloride	ug/L	ND	4.0	04/18/13 22:15	
Benzene	ug/L	ND	1.0	04/18/13 22:15	
Bromobenzene	ug/L	ND	1.0	04/18/13 22:15	
Bromochloromethane	ug/L	ND	1.0	04/18/13 22:15	
Bromodichloromethane	ug/L	ND	1.0	04/18/13 22:15	
Bromoform	ug/L	ND	4.0	04/18/13 22:15	
Bromomethane	ug/L	ND	10.0	04/18/13 22:15	
Carbon tetrachloride	ug/L	ND	1.0	04/18/13 22:15	
Chlorobenzene	ug/L	ND	1.0	04/18/13 22:15	
Chloroethane	ug/L	ND	1.0	04/18/13 22:15	
Chloroform	ug/L	ND	1.0	04/18/13 22:15	
Chloromethane	ug/L	ND	4.0	04/18/13 22:15	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/18/13 22:15	
cis-1,3-Dichloropropene	ug/L	ND	4.0	04/18/13 22:15	
Dibromochloromethane	ug/L	ND	1.0	04/18/13 22:15	
Dibromomethane	ug/L	ND	4.0	04/18/13 22:15	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

METHOD BLANK: 1411808

Matrix: Water

Associated Lab Samples: 10225292007, 10225292009, 10225292012, 10225292025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	04/18/13 22:15	
Dichlorofluoromethane	ug/L	ND	1.0	04/18/13 22:15	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	04/18/13 22:15	
Ethylbenzene	ug/L	ND	1.0	04/18/13 22:15	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/18/13 22:15	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	04/18/13 22:15	
Methyl-tert-butyl ether	ug/L	ND	1.0	04/18/13 22:15	
Methylene Chloride	ug/L	ND	4.0	04/18/13 22:15	
n-Butylbenzene	ug/L	ND	1.0	04/18/13 22:15	
n-Propylbenzene	ug/L	ND	1.0	04/18/13 22:15	
Naphthalene	ug/L	ND	4.0	04/18/13 22:15	
p-Isopropyltoluene	ug/L	ND	1.0	04/18/13 22:15	
sec-Butylbenzene	ug/L	ND	1.0	04/18/13 22:15	
Styrene	ug/L	ND	1.0	04/18/13 22:15	
tert-Butylbenzene	ug/L	ND	1.0	04/18/13 22:15	
Tetrachloroethene	ug/L	ND	1.0	04/18/13 22:15	
Tetrahydrofuran	ug/L	ND	10.0	04/18/13 22:15	
Toluene	ug/L	ND	1.0	04/18/13 22:15	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/18/13 22:15	
trans-1,3-Dichloropropene	ug/L	ND	4.0	04/18/13 22:15	
Trichloroethene	ug/L	ND	1.0	04/18/13 22:15	
Trichlorofluoromethane	ug/L	ND	1.0	04/18/13 22:15	
Vinyl chloride	ug/L	ND	0.40	04/18/13 22:15	
Xylene (Total)	ug/L	ND	3.0	04/18/13 22:15	
1,2-Dichloroethane-d4 (S)	%	99	75-125	04/18/13 22:15	
4-Bromofluorobenzene (S)	%	100	75-125	04/18/13 22:15	
Toluene-d8 (S)	%	97	75-125	04/18/13 22:15	

LABORATORY CONTROL SAMPLE: 1411809

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.0	105	75-125	
1,1,1-Trichloroethane	ug/L	20	22.9	115	75-126	
1,1,2,2-Tetrachloroethane	ug/L	20	21.7	108	75-125	
1,1,2-Trichloroethane	ug/L	20	20.2	101	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	21.6	108	51-139	
1,1-Dichloroethane	ug/L	20	22.9	115	75-125	
1,1-Dichloroethene	ug/L	20	23.0	115	71-126	
1,1-Dichloropropene	ug/L	20	22.4	112	74-125	
1,2,3-Trichlorobenzene	ug/L	20	20.0	100	75-125	
1,2,3-Trichloropropane	ug/L	20	21.7	108	75-125	
1,2,4-Trichlorobenzene	ug/L	20	19.9	100	75-125	
1,2,4-Trimethylbenzene	ug/L	20	19.6	98	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	53.7	107	73-125	
1,2-Dibromoethane (EDB)	ug/L	20	21.2	106	75-125	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

LABORATORY CONTROL SAMPLE: 1411809

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	21.4	107	75-125	
1,2-Dichloroethane	ug/L	20	21.0	105	74-125	
1,2-Dichloropropane	ug/L	20	21.7	108	75-125	
1,3,5-Trimethylbenzene	ug/L	20	19.4	97	75-125	
1,3-Dichlorobenzene	ug/L	20	20.4	102	75-125	
1,3-Dichloropropane	ug/L	20	21.0	105	75-125	
1,4-Dichlorobenzene	ug/L	20	20.7	103	75-125	
2,2-Dichloropropane	ug/L	20	20.8	104	67-132	
2-Butanone (MEK)	ug/L	100	101	101	68-126	
2-Chlorotoluene	ug/L	20	20.0	100	74-125	
4-Chlorotoluene	ug/L	20	20.0	100	74-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	72-125	
Acetone	ug/L	100	114	114	69-132	
Allyl chloride	ug/L	20	21.7	109	74-125	
Benzene	ug/L	20	21.2	106	75-125	
Bromobenzene	ug/L	20	20.7	104	75-125	
Bromochloromethane	ug/L	20	21.6	108	75-125	
Bromodichloromethane	ug/L	20	20.5	103	75-125	
Bromoform	ug/L	20	18.6	93	75-126	
Bromomethane	ug/L	20	28.6	143	30-150	
Carbon tetrachloride	ug/L	20	22.8	114	74-127	
Chlorobenzene	ug/L	20	20.8	104	75-125	
Chloroethane	ug/L	20	23.6	118	68-132	
Chloroform	ug/L	20	22.9	114	75-125	
Chloromethane	ug/L	20	23.5	118	61-129	
cis-1,2-Dichloroethene	ug/L	20	23.0	115	75-125	
cis-1,3-Dichloropropene	ug/L	20	21.2	106	75-125	
Dibromochloromethane	ug/L	20	20.4	102	75-125	
Dibromomethane	ug/L	20	20.4	102	75-125	
Dichlorodifluoromethane	ug/L	20	21.7	108	49-137	
Dichlorofluoromethane	ug/L	20	23.0	115	66-133	
Diethyl ether (Ethyl ether)	ug/L	20	20.0	100	75-125	
Ethylbenzene	ug/L	20	20.5	103	75-125	
Hexachloro-1,3-butadiene	ug/L	20	21.2	106	69-127	
Isopropylbenzene (Cumene)	ug/L	20	19.7	98	75-125	
Methyl-tert-butyl ether	ug/L	20	20.5	102	74-126	
Methylene Chloride	ug/L	20	21.4	107	75-125	
n-Butylbenzene	ug/L	20	19.3	96	72-126	
n-Propylbenzene	ug/L	20	19.5	98	73-125	
Naphthalene	ug/L	20	21.0	105	75-125	
p-Isopropyltoluene	ug/L	20	19.2	96	74-125	
sec-Butylbenzene	ug/L	20	19.2	96	73-125	
Styrene	ug/L	20	20.5	102	75-125	
tert-Butylbenzene	ug/L	20	19.2	96	73-125	
Tetrachloroethene	ug/L	20	19.9	100	75-125	
Tetrahydrofuran	ug/L	200	206	103	71-125	
Toluene	ug/L	20	21.7	109	75-125	
trans-1,2-Dichloroethene	ug/L	20	22.7	114	74-125	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

LABORATORY CONTROL SAMPLE: 1411809

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/L	20	19.0	95	75-125	
Trichloroethene	ug/L	20	23.0	115	75-125	
Trichlorofluoromethane	ug/L	20	23.8	119	69-129	
Vinyl chloride	ug/L	20	20.4	102	70-128	
Xylene (Total)	ug/L	60	61.1	102	75-125	
1,2-Dichloroethane-d4 (S)	%			101	75-125	
4-Bromofluorobenzene (S)	%			101	75-125	
Toluene-d8 (S)	%			99	75-125	

MATRIX SPIKE SAMPLE: 1412172

Parameter	Units	10225221001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	21.9	109	75-125	
1,1,1-Trichloroethane	ug/L	ND	20	23.8	119	75-136	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	21.3	107	66-131	
1,1,2-Trichloroethane	ug/L	ND	20	20.2	101	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	29.4	147	75-150	
1,1-Dichloroethane	ug/L	ND	20	23.9	120	75-131	
1,1-Dichloroethene	ug/L	ND	20	25.6	128	75-138	
1,1-Dichloropropene	ug/L	ND	20	24.2	121	75-136	
1,2,3-Trichlorobenzene	ug/L	ND	20	20.0	100	75-125	
1,2,3-Trichloropropane	ug/L	ND	20	21.0	105	71-126	
1,2,4-Trichlorobenzene	ug/L	ND	20	20.7	104	75-125	
1,2,4-Trimethylbenzene	ug/L	ND	20	20.2	101	70-126	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	52.6	105	69-127	
1,2-Dibromoethane (EDB)	ug/L	ND	20	21.2	106	75-125	
1,2-Dichlorobenzene	ug/L	ND	20	21.1	106	75-125	
1,2-Dichloroethane	ug/L	ND	20	21.0	105	74-128	
1,2-Dichloropropane	ug/L	ND	20	21.8	109	75-125	
1,3,5-Trimethylbenzene	ug/L	ND	20	19.9	99	72-126	
1,3-Dichlorobenzene	ug/L	ND	20	20.7	104	75-125	
1,3-Dichloropropene	ug/L	ND	20	21.1	106	75-125	
1,4-Dichlorobenzene	ug/L	ND	20	20.8	104	75-125	
2,2-Dichloropropane	ug/L	ND	20	21.5	107	71-143	
2-Butanone (MEK)	ug/L	ND	100	98.3	98	64-125	
2-Chlorotoluene	ug/L	ND	20	20.7	103	74-125	
4-Chlorotoluene	ug/L	ND	20	20.5	102	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	104	104	69-125	
Acetone	ug/L	ND	100	116	116	57-135	
Allyl chloride	ug/L	ND	20	22.4	112	73-134	
Benzene	ug/L	ND	20	21.8	109	70-135	
Bromobenzene	ug/L	ND	20	20.7	103	75-125	
Bromochloromethane	ug/L	ND	20	21.6	108	75-125	
Bromodichloromethane	ug/L	ND	20	21.1	105	75-125	
Bromoform	ug/L	ND	20	18.5	92	68-133	
Bromomethane	ug/L	ND	20	30.6	153	56-150 M1	
Carbon tetrachloride	ug/L	ND	20	24.8	124	75-137	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

MATRIX SPIKE SAMPLE: 1412172

Parameter	Units	10225221001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	ND	20	21.6	108	75-125	
Chloroethane	ug/L	ND	20	24.4	122	64-150	
Chloroform	ug/L	ND	20	23.1	116	75-127	
Chloromethane	ug/L	ND	20	24.2	121	65-140	
cis-1,2-Dichloroethene	ug/L	ND	20	22.7	113	75-129	
cis-1,3-Dichloropropene	ug/L	ND	20	21.1	106	75-125	
Dibromochloromethane	ug/L	ND	20	20.4	102	75-125	
Dibromomethane	ug/L	ND	20	20.5	103	75-125	
Dichlorodifluoromethane	ug/L	ND	20	28.7	143	70-150	
Dichlorofluoromethane	ug/L	ND	20	23.8	119	69-142	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20.0	100	75-125	
Ethylbenzene	ug/L	ND	20	21.5	107	75-125	
Hexachloro-1,3-butadiene	ug/L	ND	20	21.8	109	75-135	
Isopropylbenzene (Cumene)	ug/L	ND	20	20.8	104	75-125	
Methyl-tert-butyl ether	ug/L	ND	20	20.4	102	70-132	
Methylene Chloride	ug/L	ND	20	22.1	110	73-125	
n-Butylbenzene	ug/L	ND	20	20.4	102	75-130	
n-Propylbenzene	ug/L	ND	20	20.3	101	75-128	
Naphthalene	ug/L	ND	20	20.8	104	73-126	
p-Isopropyltoluene	ug/L	ND	20	19.9	100	75-125	
sec-Butylbenzene	ug/L	ND	20	20.2	101	75-126	
Styrene	ug/L	ND	20	20.8	104	52-137	
tert-Butylbenzene	ug/L	ND	20	20.2	101	75-125	
Tetrachloroethene	ug/L	ND	20	21.9	109	75-130	
Tetrahydrofuran	ug/L	ND	200	197	98	69-125	
Toluene	ug/L	ND	20	22.3	112	75-125	
trans-1,2-Dichloroethene	ug/L	ND	20	23.7	118	75-135	
trans-1,3-Dichloropropene	ug/L	ND	20	19.1	96	75-125	
Trichloroethene	ug/L	ND	20	23.4	117	75-129	
Trichlorofluoromethane	ug/L	ND	20	28.4	142	75-150	
Vinyl chloride	ug/L	ND	20	22.0	110	75-147	
Xylene (Total)	ug/L	ND	60	63.7	106	75-125	
1,2-Dichloroethane-d4 (S)	%				97	75-125	
4-Bromofluorobenzene (S)	%				99	75-125	
Toluene-d8 (S)	%				99	75-125	

SAMPLE DUPLICATE: 1412173

Parameter	Units	10225221002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

SAMPLE DUPLICATE: 1412173

Parameter	Units	10225221002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

SAMPLE DUPLICATE: 1412173

Parameter	Units	10225221002 Result	Dup Result	RPD	Max RPD	Qualifiers
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	98	98	.7		
4-Bromofluorobenzene (S)	%	98	101	2		
Toluene-d8 (S)	%	99	98	.4		

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

QC Batch:	MSV/23434	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 465 W
Associated Lab Samples:	10225292002		

METHOD BLANK: 1413644 Matrix: Water

Associated Lab Samples: 10225292002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	04/22/13 15:32	
1,1,1-Trichloroethane	ug/L	ND	1.0	04/22/13 15:32	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/22/13 15:32	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/22/13 15:32	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	04/22/13 15:32	
1,1-Dichloroethane	ug/L	ND	1.0	04/22/13 15:32	
1,1-Dichloroethene	ug/L	ND	1.0	04/22/13 15:32	
1,1-Dichloropropene	ug/L	ND	1.0	04/22/13 15:32	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	04/22/13 15:32	
1,2,3-Trichloropropane	ug/L	ND	4.0	04/22/13 15:32	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	04/22/13 15:32	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	04/22/13 15:32	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	04/22/13 15:32	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	04/22/13 15:32	
1,2-Dichlorobenzene	ug/L	ND	1.0	04/22/13 15:32	
1,2-Dichloroethane	ug/L	ND	1.0	04/22/13 15:32	
1,2-Dichloropropane	ug/L	ND	4.0	04/22/13 15:32	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	04/22/13 15:32	
1,3-Dichlorobenzene	ug/L	ND	1.0	04/22/13 15:32	
1,3-Dichloropropane	ug/L	ND	1.0	04/22/13 15:32	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/22/13 15:32	
2,2-Dichloropropane	ug/L	ND	4.0	04/22/13 15:32	
2-Butanone (MEK)	ug/L	ND	5.0	04/22/13 15:32	
2-Chlorotoluene	ug/L	ND	1.0	04/22/13 15:32	
4-Chlorotoluene	ug/L	ND	1.0	04/22/13 15:32	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	04/22/13 15:32	
Acetone	ug/L	ND	20.0	04/22/13 15:32	
Allyl chloride	ug/L	ND	4.0	04/22/13 15:32	
Benzene	ug/L	ND	1.0	04/22/13 15:32	
Bromobenzene	ug/L	ND	1.0	04/22/13 15:32	
Bromochloromethane	ug/L	ND	1.0	04/22/13 15:32	
Bromodichloromethane	ug/L	ND	1.0	04/22/13 15:32	
Bromoform	ug/L	ND	4.0	04/22/13 15:32	
Bromomethane	ug/L	ND	4.0	04/22/13 15:32	
Carbon tetrachloride	ug/L	ND	1.0	04/22/13 15:32	
Chlorobenzene	ug/L	ND	1.0	04/22/13 15:32	
Chloroethane	ug/L	ND	1.0	04/22/13 15:32	
Chloroform	ug/L	ND	1.0	04/22/13 15:32	
Chloromethane	ug/L	ND	4.0	04/22/13 15:32	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/22/13 15:32	
cis-1,3-Dichloropropene	ug/L	ND	4.0	04/22/13 15:32	
Dibromochloromethane	ug/L	ND	1.0	04/22/13 15:32	
Dibromomethane	ug/L	ND	4.0	04/22/13 15:32	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

METHOD BLANK: 1413644

Matrix: Water

Associated Lab Samples: 10225292002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	04/22/13 15:32	
Dichlorofluoromethane	ug/L	ND	1.0	04/22/13 15:32	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	04/22/13 15:32	
Ethylbenzene	ug/L	ND	1.0	04/22/13 15:32	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/22/13 15:32	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	04/22/13 15:32	
Methyl-tert-butyl ether	ug/L	ND	1.0	04/22/13 15:32	
Methylene Chloride	ug/L	ND	4.0	04/22/13 15:32	
n-Butylbenzene	ug/L	ND	1.0	04/22/13 15:32	
n-Propylbenzene	ug/L	ND	1.0	04/22/13 15:32	
Naphthalene	ug/L	ND	4.0	04/22/13 15:32	
p-Isopropyltoluene	ug/L	ND	1.0	04/22/13 15:32	
sec-Butylbenzene	ug/L	ND	1.0	04/22/13 15:32	
Styrene	ug/L	ND	1.0	04/22/13 15:32	
tert-Butylbenzene	ug/L	ND	1.0	04/22/13 15:32	
Tetrachloroethene	ug/L	ND	1.0	04/22/13 15:32	
Tetrahydrofuran	ug/L	ND	10.0	04/22/13 15:32	
Toluene	ug/L	ND	1.0	04/22/13 15:32	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/22/13 15:32	
trans-1,3-Dichloropropene	ug/L	ND	4.0	04/22/13 15:32	
Trichloroethene	ug/L	ND	1.0	04/22/13 15:32	
Trichlorofluoromethane	ug/L	ND	1.0	04/22/13 15:32	
Vinyl chloride	ug/L	ND	0.40	04/22/13 15:32	
Xylene (Total)	ug/L	ND	3.0	04/22/13 15:32	
1,2-Dichloroethane-d4 (S)	%	101	75-125	04/22/13 15:32	
4-Bromofluorobenzene (S)	%	99	75-125	04/22/13 15:32	
Toluene-d8 (S)	%	98	75-125	04/22/13 15:32	

LABORATORY CONTROL SAMPLE: 1413645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	23.9	119	75-125	
1,1,1-Trichloroethane	ug/L	20	24.5	122	75-126	
1,1,2,2-Tetrachloroethane	ug/L	20	21.2	106	75-125	
1,1,2-Trichloroethane	ug/L	20	22.3	112	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.1	101	51-139	
1,1-Dichloroethane	ug/L	20	22.1	110	75-125	
1,1-Dichloroethene	ug/L	20	24.5	122	71-126	
1,1-Dichloropropene	ug/L	20	23.9	119	74-125	
1,2,3-Trichlorobenzene	ug/L	20	22.4	112	75-125	
1,2,3-Trichloropropane	ug/L	20	21.7	108	75-125	
1,2,4-Trichlorobenzene	ug/L	20	23.5	117	75-125	
1,2,4-Trimethylbenzene	ug/L	20	24.0	120	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	54.9	110	73-125	
1,2-Dibromoethane (EDB)	ug/L	20	22.6	113	75-125	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

LABORATORY CONTROL SAMPLE: 1413645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	22.6	113	75-125	
1,2-Dichloroethane	ug/L	20	22.6	113	74-125	
1,2-Dichloropropane	ug/L	20	23.0	115	75-125	
1,3,5-Trimethylbenzene	ug/L	20	24.0	120	75-125	
1,3-Dichlorobenzene	ug/L	20	23.3	116	75-125	
1,3-Dichloropropane	ug/L	20	22.0	110	75-125	
1,4-Dichlorobenzene	ug/L	20	22.2	111	75-125	
2,2-Dichloropropane	ug/L	20	25.8	129	67-132	
2-Butanone (MEK)	ug/L	100	103	103	68-126	
2-Chlorotoluene	ug/L	20	23.1	115	74-125	
4-Chlorotoluene	ug/L	20	23.1	116	74-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	72-125	
Acetone	ug/L	100	118	118	69-132	
Allyl chloride	ug/L	20	25.6	128	74-125 L0	
Benzene	ug/L	20	22.9	115	75-125	
Bromobenzene	ug/L	20	22.9	114	75-125	
Bromochloromethane	ug/L	20	22.0	110	75-125	
Bromodichloromethane	ug/L	20	23.4	117	75-125	
Bromoform	ug/L	20	23.0	115	75-126	
Bromomethane	ug/L	20	43.0	215	30-150 CH,L0,SS	
Carbon tetrachloride	ug/L	20	25.8	129	74-127 L0	
Chlorobenzene	ug/L	20	22.3	112	75-125	
Chloroethane	ug/L	20	22.3	112	68-132	
Chloroform	ug/L	20	23.1	115	75-125	
Chloromethane	ug/L	20	21.6	108	61-129	
cis-1,2-Dichloroethene	ug/L	20	22.6	113	75-125	
cis-1,3-Dichloropropene	ug/L	20	23.8	119	75-125	
Dibromochloromethane	ug/L	20	22.6	113	75-125	
Dibromomethane	ug/L	20	22.3	112	75-125	
Dichlorodifluoromethane	ug/L	20	19.5	98	49-137	
Dichlorofluoromethane	ug/L	20	23.1	116	66-133	
Diethyl ether (Ethyl ether)	ug/L	20	22.3	112	75-125	
Ethylbenzene	ug/L	20	22.8	114	75-125	
Hexachloro-1,3-butadiene	ug/L	20	24.1	121	69-127	
Isopropylbenzene (Cumene)	ug/L	20	23.2	116	75-125	
Methyl-tert-butyl ether	ug/L	20	23.4	117	74-126	
Methylene Chloride	ug/L	20	22.5	113	75-125	
n-Butylbenzene	ug/L	20	25.0	125	72-126	
n-Propylbenzene	ug/L	20	23.8	119	73-125	
Naphthalene	ug/L	20	22.9	114	75-125	
p-Isopropyltoluene	ug/L	20	24.0	120	74-125	
sec-Butylbenzene	ug/L	20	23.8	119	73-125	
Styrene	ug/L	20	23.5	117	75-125	
tert-Butylbenzene	ug/L	20	23.8	119	73-125	
Tetrachloroethene	ug/L	20	23.7	118	75-125	
Tetrahydrofuran	ug/L	200	219	109	71-125	
Toluene	ug/L	20	22.5	112	75-125	
trans-1,2-Dichloroethene	ug/L	20	23.3	117	74-125	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

LABORATORY CONTROL SAMPLE: 1413645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/L	20	23.8	119	75-125	
Trichloroethene	ug/L	20	23.1	115	75-125	
Trichlorofluoromethane	ug/L	20	23.8	119	69-129	
Vinyl chloride	ug/L	20	22.8	114	70-128	
Xylene (Total)	ug/L	60	70.1	117	75-125	
1,2-Dichloroethane-d4 (S)	%			102	75-125	
4-Bromofluorobenzene (S)	%			101	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1413646 1413647

Parameter	Units	MS Spike		MSD Spike		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10225422029	Result	Conc.	Conc.								
1,1,1,2-Tetrachloroethane	ug/L	ND	200	200	237	239	118	120	75-125	1	30		
1,1,1-Trichloroethane	ug/L	ND	200	200	247	262	124	131	75-136	6	30		
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	206	210	103	105	66-131	2	30		
1,1,2-Trichloroethane	ug/L	ND	200	200	226	227	113	113	75-125	.5	30		
1,1,2-Trichlorotrifluoroethane	ug/L	ND	200	200	296	310	148	155	75-150	5	30	M1	
1,1-Dichloroethane	ug/L	ND	200	200	230	240	115	120	75-131	5	30		
1,1-Dichloroethene	ug/L	ND	200	200	259	271	130	136	75-138	5	30		
1,1-Dichloropropene	ug/L	ND	200	200	253	267	127	133	75-136	5	30		
1,2,3-Trichlorobenzene	ug/L	ND	200	200	220	223	109	111	75-125	2	30		
1,2,3-Trichloropropane	ug/L	ND	200	200	216	212	108	106	71-126	1	30		
1,2,4-Trichlorobenzene	ug/L	ND	200	200	227	233	113	116	75-125	3	30		
1,2,4-Trimethylbenzene	ug/L	ND	200	200	233	241	116	120	70-126	3	30		
1,2-Dibromo-3-chloropropane	ug/L	ND	500	500	528	542	106	108	69-127	3	30		
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	224	226	112	113	75-125	1	30		
1,2-Dichlorobenzene	ug/L	ND	200	200	221	225	110	113	75-125	2	30		
1,2-Dichloroethane	ug/L	ND	200	200	220	229	110	114	74-128	4	30		
1,2-Dichloropropane	ug/L	ND	200	200	232	240	116	120	75-125	3	30		
1,3,5-Trimethylbenzene	ug/L	ND	200	200	229	238	115	119	72-126	4	30		
1,3-Dichlorobenzene	ug/L	ND	200	200	225	232	112	116	75-125	3	30		
1,3-Dichloropropane	ug/L	ND	200	200	221	221	111	110	75-125	.06	30		
1,4-Dichlorobenzene	ug/L	ND	200	200	218	224	109	112	75-125	3	30		
2,2-Dichloropropane	ug/L	ND	200	200	259	272	130	136	71-143	5	30		
2-Butanone (MEK)	ug/L	ND	1000	1000	1020	1050	101	104	64-125	2	30		
2-Chlorotoluene	ug/L	ND	200	200	226	233	113	116	74-125	3	30		
4-Chlorotoluene	ug/L	ND	200	200	226	233	113	117	75-125	3	30		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	1000	1000	1070	1080	107	108	69-125	.4	30		
Acetone	ug/L	ND	1000	1000	1180	1240	117	123	57-135	5	30		
Allyl chloride	ug/L	ND	200	200	239	277	119	139	73-134	15	30	M0	
Benzene	ug/L	ND	200	200	226	239	113	119	70-135	5	30		
Bromobenzene	ug/L	ND	200	200	228	232	114	116	75-125	2	30		
Bromochloromethane	ug/L	ND	200	200	217	226	109	113	75-125	4	30		
Bromodichloromethane	ug/L	ND	200	200	238	239	119	120	75-125	.8	30		
Bromoform	ug/L	ND	200	200	227	228	114	114	68-133	.2	30		

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

Parameter	Units	10225422029		MS Spike Conc.		MSD Spike Conc.		MS Result		MSD Result		MS % Rec		MSD % Rec		% Rec Limits		Max RPD		Qual
		Result	Conc.	200	200	365	200	428	182	214	56-150	16	30	CH, M0,SS						
Bromomethane	ug/L	ND	200	200	365	200	428	182	214	56-150	16	30	CH, M0,SS							
Carbon tetrachloride	ug/L	ND	200	200	271	200	287	136	143	75-137	6	30	M0							
Chlorobenzene	ug/L	ND	200	200	223	200	227	111	113	75-125	2	30								
Chloroethane	ug/L	ND	200	200	227	200	244	114	122	64-150	7	30								
Chloroform	ug/L	ND	200	200	227	200	244	114	122	75-127	7	30								
Chloromethane	ug/L	ND	200	200	217	200	225	108	112	65-140	3	30								
cis-1,2-Dichloroethene	ug/L	ND	200	200	230	200	244	111	118	75-129	6	30								
cis-1,3-Dichloropropene	ug/L	ND	200	200	230	200	242	115	121	75-125	5	30								
Dibromochloromethane	ug/L	ND	200	200	222	200	228	111	114	75-125	3	30								
Dibromomethane	ug/L	ND	200	200	220	200	222	110	111	75-125	.6	30								
Dichlorodifluoromethane	ug/L	ND	200	200	265	200	279	133	139	70-150	5	30								
Dichlorofluoromethane	ug/L	ND	200	200	229	200	246	114	123	69-142	7	30								
Diethyl ether (Ethyl ether)	ug/L	ND	200	200	223	200	235	112	118	75-125	5	30								
Ethylbenzene	ug/L	ND	200	200	228	200	231	114	115	75-125	1	30								
Hexachloro-1,3-butadiene	ug/L	ND	200	200	246	200	251	123	125	75-135	2	30								
Isopropylbenzene (Cumene)	ug/L	ND	200	200	230	200	240	115	120	75-125	4	30								
Methyl-tert-butyl ether	ug/L	ND	200	200	232	200	237	116	118	70-132	2	30								
Methylene Chloride	ug/L	ND	200	200	220	200	234	109	116	73-125	6	30								
n-Butylbenzene	ug/L	ND	200	200	247	200	256	124	128	75-130	4	30								
n-Propylbenzene	ug/L	ND	200	200	233	200	245	116	122	75-128	5	30								
Naphthalene	ug/L	ND	200	200	224	200	222	112	110	73-126	1	30								
p-Isopropyltoluene	ug/L	ND	200	200	238	200	249	119	125	75-125	5	30								
sec-Butylbenzene	ug/L	ND	200	200	235	200	244	118	122	75-126	4	30								
Styrene	ug/L	ND	200	200	229	200	237	114	118	52-137	3	30								
tert-Butylbenzene	ug/L	ND	200	200	231	200	241	116	120	75-125	4	30								
Tetrachloroethene	ug/L	ND	200	200	244	200	249	122	124	75-130	2	30								
Tetrahydrofuran	ug/L	ND	2000	2000	2100	2000	2170	105	109	69-125	4	30								
Toluene	ug/L	ND	200	200	229	200	231	114	116	75-125	1	30								
trans-1,2-Dichloroethene	ug/L	ND	200	200	230	200	245	115	122	75-135	6	30								
trans-1,3-Dichloropropene	ug/L	ND	200	200	234	200	241	117	120	75-125	3	30								
Trichloroethene	ug/L	1610	200	200	1860	200	1900	123	143	75-129	2	30	M1							
Trichlorofluoromethane	ug/L	ND	200	200	255	200	290	128	145	75-150	13	30								
Vinyl chloride	ug/L	ND	200	200	238	200	251	119	126	75-147	6	30								
Xylene (Total)	ug/L	ND	600	600	694	600	714	116	119	75-125	3	30								
1,2-Dichloroethane-d4 (S)	%							102	105	75-125										
4-Bromofluorobenzene (S)	%							100	101	75-125										
Toluene-d8 (S)	%							101	100	75-125										

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

QC Batch: MSV/23440

QC Batch Method: EPA 8260

Associated Lab Samples: 10225292019

METHOD BLANK: 1413965

Matrix: Water

Associated Lab Samples: 10225292019

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	04/23/13 02:09	
1,1,1-Trichloroethane	ug/L	ND	1.0	04/23/13 02:09	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/23/13 02:09	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/23/13 02:09	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	04/23/13 02:09	
1,1-Dichloroethane	ug/L	ND	1.0	04/23/13 02:09	
1,1-Dichloroethene	ug/L	ND	1.0	04/23/13 02:09	
1,1-Dichloropropene	ug/L	ND	1.0	04/23/13 02:09	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	04/23/13 02:09	
1,2,3-Trichloropropane	ug/L	ND	4.0	04/23/13 02:09	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	04/23/13 02:09	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	04/23/13 02:09	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	04/23/13 02:09	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	04/23/13 02:09	
1,2-Dichlorobenzene	ug/L	ND	1.0	04/23/13 02:09	
1,2-Dichloroethane	ug/L	ND	1.0	04/23/13 02:09	
1,2-Dichloropropane	ug/L	ND	4.0	04/23/13 02:09	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	04/23/13 02:09	
1,3-Dichlorobenzene	ug/L	ND	1.0	04/23/13 02:09	
1,3-Dichloropropane	ug/L	ND	1.0	04/23/13 02:09	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/23/13 02:09	
2,2-Dichloropropane	ug/L	ND	4.0	04/23/13 02:09	
2-Butanone (MEK)	ug/L	ND	5.0	04/23/13 02:09	
2-Chlorotoluene	ug/L	ND	1.0	04/23/13 02:09	
4-Chlorotoluene	ug/L	ND	1.0	04/23/13 02:09	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	04/23/13 02:09	
Acetone	ug/L	ND	20.0	04/23/13 02:09	
Allyl chloride	ug/L	ND	4.0	04/23/13 02:09	
Benzene	ug/L	ND	1.0	04/23/13 02:09	
Bromobenzene	ug/L	ND	1.0	04/23/13 02:09	
Bromochloromethane	ug/L	ND	1.0	04/23/13 02:09	
Bromodichloromethane	ug/L	ND	1.0	04/23/13 02:09	
Bromoform	ug/L	ND	4.0	04/23/13 02:09	
Bromomethane	ug/L	ND	4.0	04/23/13 02:09	
Carbon tetrachloride	ug/L	ND	1.0	04/23/13 02:09	
Chlorobenzene	ug/L	ND	1.0	04/23/13 02:09	
Chloroethane	ug/L	ND	1.0	04/23/13 02:09	
Chloroform	ug/L	ND	1.0	04/23/13 02:09	
Chloromethane	ug/L	ND	4.0	04/23/13 02:09	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/23/13 02:09	
cis-1,3-Dichloropropene	ug/L	ND	4.0	04/23/13 02:09	
Dibromochloromethane	ug/L	ND	1.0	04/23/13 02:09	
Dibromomethane	ug/L	ND	4.0	04/23/13 02:09	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

METHOD BLANK: 1413965

Matrix: Water

Associated Lab Samples: 10225292019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	04/23/13 02:09	
Dichlorofluoromethane	ug/L	ND	1.0	04/23/13 02:09	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	04/23/13 02:09	
Ethylbenzene	ug/L	ND	1.0	04/23/13 02:09	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/23/13 02:09	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	04/23/13 02:09	
Methyl-tert-butyl ether	ug/L	ND	1.0	04/23/13 02:09	
Methylene Chloride	ug/L	ND	4.0	04/23/13 02:09	
n-Butylbenzene	ug/L	ND	1.0	04/23/13 02:09	
n-Propylbenzene	ug/L	ND	1.0	04/23/13 02:09	
Naphthalene	ug/L	ND	4.0	04/23/13 02:09	
p-Isopropyltoluene	ug/L	ND	1.0	04/23/13 02:09	
sec-Butylbenzene	ug/L	ND	1.0	04/23/13 02:09	
Styrene	ug/L	ND	1.0	04/23/13 02:09	
tert-Butylbenzene	ug/L	ND	1.0	04/23/13 02:09	
Tetrachloroethene	ug/L	ND	1.0	04/23/13 02:09	
Tetrahydrofuran	ug/L	ND	10.0	04/23/13 02:09	
Toluene	ug/L	ND	1.0	04/23/13 02:09	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/23/13 02:09	
trans-1,3-Dichloropropene	ug/L	ND	4.0	04/23/13 02:09	
Trichloroethene	ug/L	ND	1.0	04/23/13 02:09	
Trichlorofluoromethane	ug/L	ND	1.0	04/23/13 02:09	
Vinyl chloride	ug/L	ND	0.40	04/23/13 02:09	
Xylene (Total)	ug/L	ND	3.0	04/23/13 02:09	
1,2-Dichloroethane-d4 (S)	%	100	75-125	04/23/13 02:09	
4-Bromofluorobenzene (S)	%	96	75-125	04/23/13 02:09	
Toluene-d8 (S)	%	99	75-125	04/23/13 02:09	

LABORATORY CONTROL SAMPLE: 1413966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.9	104	75-125	
1,1,1-Trichloroethane	ug/L	20	21.2	106	75-126	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	97	75-125	
1,1,2-Trichloroethane	ug/L	20	20.4	102	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	18.6	93	51-139	
1,1-Dichloroethane	ug/L	20	20.2	101	75-125	
1,1-Dichloroethene	ug/L	20	21.1	105	71-126	
1,1-Dichloropropene	ug/L	20	21.1	106	74-125	
1,2,3-Trichlorobenzene	ug/L	20	20.4	102	75-125	
1,2,3-Trichloropropane	ug/L	20	19.9	100	75-125	
1,2,4-Trichlorobenzene	ug/L	20	20.3	102	75-125	
1,2,4-Trimethylbenzene	ug/L	20	20.7	104	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	52.4	105	73-125	
1,2-Dibromoethane (EDB)	ug/L	20	20.6	103	75-125	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

LABORATORY CONTROL SAMPLE: 1413966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	20.3	101	75-125	
1,2-Dichloroethane	ug/L	20	20.4	102	74-125	
1,2-Dichloropropane	ug/L	20	20.7	103	75-125	
1,3,5-Trimethylbenzene	ug/L	20	20.6	103	75-125	
1,3-Dichlorobenzene	ug/L	20	20.4	102	75-125	
1,3-Dichloropropane	ug/L	20	20.0	100	75-125	
1,4-Dichlorobenzene	ug/L	20	19.8	99	75-125	
2,2-Dichloropropane	ug/L	20	19.6	98	67-132	
2-Butanone (MEK)	ug/L	100	97.1	97	68-126	
2-Chlorotoluene	ug/L	20	20.1	101	74-125	
4-Chlorotoluene	ug/L	20	20.2	101	74-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	100	100	72-125	
Acetone	ug/L	100	111	111	69-132	
Allyl chloride	ug/L	20	20.6	103	74-125	
Benzene	ug/L	20	20.2	101	75-125	
Bromobenzene	ug/L	20	20.5	102	75-125	
Bromochloromethane	ug/L	20	20.2	101	75-125	
Bromodichloromethane	ug/L	20	21.3	106	75-125	
Bromoform	ug/L	20	20.9	105	75-126	
Bromomethane	ug/L	20	37.2	186	30-150	CH,LO,SS
Carbon tetrachloride	ug/L	20	22.4	112	74-127	
Chlorobenzene	ug/L	20	19.9	100	75-125	
Chloroethane	ug/L	20	19.7	99	68-132	
Chloroform	ug/L	20	20.4	102	75-125	
Chloromethane	ug/L	20	19.3	97	61-129	
cis-1,2-Dichloroethene	ug/L	20	20.4	102	75-125	
cis-1,3-Dichloropropene	ug/L	20	20.7	103	75-125	
Dibromochloromethane	ug/L	20	20.3	102	75-125	
Dibromomethane	ug/L	20	20.6	103	75-125	
Dichlorodifluoromethane	ug/L	20	17.2	86	49-137	
Dichlorofluoromethane	ug/L	20	20.8	104	66-133	
Diethyl ether (Ethyl ether)	ug/L	20	20.3	102	75-125	
Ethylbenzene	ug/L	20	20.1	100	75-125	
Hexachloro-1,3-butadiene	ug/L	20	20.4	102	69-127	
Isopropylbenzene (Cumene)	ug/L	20	20.8	104	75-125	
Methyl-tert-butyl ether	ug/L	20	21.0	105	74-126	
Methylene Chloride	ug/L	20	20.2	101	75-125	
n-Butylbenzene	ug/L	20	21.1	105	72-126	
n-Propylbenzene	ug/L	20	20.8	104	73-125	
Naphthalene	ug/L	20	20.9	104	75-125	
p-Isopropyltoluene	ug/L	20	20.8	104	74-125	
sec-Butylbenzene	ug/L	20	20.8	104	73-125	
Styrene	ug/L	20	20.8	104	75-125	
tert-Butylbenzene	ug/L	20	20.6	103	73-125	
Tetrachloroethene	ug/L	20	21.1	106	75-125	
Tetrahydrofuran	ug/L	200	211	105	71-125	
Toluene	ug/L	20	20.2	101	75-125	
trans-1,2-Dichloroethene	ug/L	20	20.5	103	74-125	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

LABORATORY CONTROL SAMPLE: 1413966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/L	20	20.2	101	75-125	
Trichloroethene	ug/L	20	20.8	104	75-125	
Trichlorofluoromethane	ug/L	20	19.6	98	69-129	
Vinyl chloride	ug/L	20	19.4	97	70-128	
Xylene (Total)	ug/L	60	62.3	104	75-125	
1,2-Dichloroethane-d4 (S)	%			102	75-125	
4-Bromofluorobenzene (S)	%			98	75-125	
Toluene-d8 (S)	%			99	75-125	

MATRIX SPIKE SAMPLE: 1413967

Parameter	Units	10225857001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	21.7	109	75-125	
1,1,1-Trichloroethane	ug/L	ND	20	23.1	116	75-136	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.0	100	66-131	
1,1,2-Trichloroethane	ug/L	ND	20	20.5	102	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	27.1	136	75-150	
1,1-Dichloroethane	ug/L	ND	20	21.2	106	75-131	
1,1-Dichloroethene	ug/L	ND	20	21.5	108	75-138	
1,1-Dichloropropene	ug/L	ND	20	22.7	113	75-136	
1,2,3-Trichlorobenzene	ug/L	ND	20	19.8	99	75-125	
1,2,3-Trichloropropane	ug/L	ND	20	20.3	102	71-126	
1,2,4-Trichlorobenzene	ug/L	ND	20	20.2	101	75-125	
1,2,4-Trimethylbenzene	ug/L	ND	20	20.8	104	70-126	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	53.2	106	69-127	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20.0	100	75-125	
1,2-Dichlorobenzene	ug/L	ND	20	20.2	101	75-125	
1,2-Dichloroethane	ug/L	ND	20	20.6	103	74-128	
1,2-Dichloropropane	ug/L	ND	20	21.0	105	75-125	
1,3,5-Trimethylbenzene	ug/L	ND	20	20.6	103	72-126	
1,3-Dichlorobenzene	ug/L	ND	20	20.5	103	75-125	
1,3-Dichloropropene	ug/L	ND	20	19.7	98	75-125	
1,4-Dichlorobenzene	ug/L	ND	20	19.9	100	75-125	
2,2-Dichloropropane	ug/L	ND	20	20.6	103	71-143	
2-Butanone (MEK)	ug/L	ND	100	97.0	97	64-125	
2-Chlorotoluene	ug/L	ND	20	20.1	101	74-125	
4-Chlorotoluene	ug/L	ND	20	20.2	101	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	104	104	69-125	
Acetone	ug/L	ND	100	114	114	57-135	
Allyl chloride	ug/L	ND	20	23.3	116	73-134	
Benzene	ug/L	ND	20	21.1	105	70-135	
Bromobenzene	ug/L	ND	20	20.7	103	75-125	
Bromochloromethane	ug/L	ND	20	20.4	102	75-125	
Bromodichloromethane	ug/L	ND	20	21.5	107	75-125	
Bromoform	ug/L	ND	20	20.9	105	68-133	
Bromomethane	ug/L	ND	20	39.4	197	56-150 CH,M0,SS	
Carbon tetrachloride	ug/L	ND	20	25.2	126	75-137	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

MATRIX SPIKE SAMPLE: 1413967

Parameter	Units	10225857001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	ND	20	20.3	101	75-125	
Chloroethane	ug/L	ND	20	20.2	101	64-150	
Chloroform	ug/L	ND	20	21.4	107	75-127	
Chloromethane	ug/L	ND	20	20.5	103	65-140	
cis-1,2-Dichloroethene	ug/L	ND	20	21.0	105	75-129	
cis-1,3-Dichloropropene	ug/L	ND	20	20.9	104	75-125	
Dibromochloromethane	ug/L	ND	20	20.3	101	75-125	
Dibromomethane	ug/L	ND	20	20.3	101	75-125	
Dichlorodifluoromethane	ug/L	ND	20	23.6	118	70-150	
Dichlorofluoromethane	ug/L	ND	20	22.2	111	69-142	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20.6	103	75-125	
Ethylbenzene	ug/L	ND	20	20.8	104	75-125	
Hexachloro-1,3-butadiene	ug/L	ND	20	21.0	105	75-135	
Isopropylbenzene (Cumene)	ug/L	ND	20	21.4	107	75-125	
Methyl-tert-butyl ether	ug/L	ND	20	20.6	103	70-132	
Methylene Chloride	ug/L	ND	20	20.4	102	73-125	
n-Butylbenzene	ug/L	ND	20	21.6	108	75-130	
n-Propylbenzene	ug/L	ND	20	20.9	105	75-128	
Naphthalene	ug/L	ND	20	20.6	103	73-126	
p-Isopropyltoluene	ug/L	ND	20	21.3	106	75-125	
sec-Butylbenzene	ug/L	ND	20	21.4	107	75-126	
Styrene	ug/L	ND	20	20.9	105	52-137	
tert-Butylbenzene	ug/L	ND	20	21.3	107	75-125	
Tetrachloroethene	ug/L	ND	20	22.1	111	75-130	
Tetrahydrofuran	ug/L	ND	200	212	106	69-125	
Toluene	ug/L	ND	20	20.8	104	75-125	
trans-1,2-Dichloroethene	ug/L	ND	20	23.4	117	75-135	
trans-1,3-Dichloropropene	ug/L	ND	20	20.2	101	75-125	
Trichloroethene	ug/L	ND	20	21.9	109	75-129	
Trichlorofluoromethane	ug/L	ND	20	24.8	124	75-150	
Vinyl chloride	ug/L	ND	20	22.2	111	75-147	
Xylene (Total)	ug/L	ND	60	63.1	105	75-125	
1,2-Dichloroethane-d4 (S)	%				104	75-125	
4-Bromofluorobenzene (S)	%				97	75-125	
Toluene-d8 (S)	%				101	75-125	

SAMPLE DUPLICATE: 1413968

Parameter	Units	10225857002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

SAMPLE DUPLICATE: 1413968

Parameter	Units	10225857002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	3.5	3.9	12	30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	.12J		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	.37J		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

SAMPLE DUPLICATE: 1413968

Parameter	Units	10225857002 Result	Dup Result	RPD	Max RPD	Qualifiers
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	99	100	.9		
4-Bromofluorobenzene (S)	%	97	97	.1		
Toluene-d8 (S)	%	99	98	1		

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

QC Batch:	OEXT/21394	Analysis Method:	EPA 8270
QC Batch Method:	EPA 3550	Analysis Description:	8270 Solid MSSV
Associated Lab Samples:	10225292003, 10225292004, 10225292005, 10225292006, 10225292008, 10225292010, 10225292013, 10225292015, 10225292018, 10225292020, 10225292021, 10225292022		

METHOD BLANK: 1410703	Matrix: Solid
Associated Lab Samples:	10225292003, 10225292004, 10225292005, 10225292006, 10225292008, 10225292010, 10225292013, 10225292015, 10225292018, 10225292020, 10225292021, 10225292022

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
1,2,4-Trichlorobenzene	mg/kg	ND	0.33	04/19/13 08:59	
1,2-Dichlorobenzene	mg/kg	ND	0.33	04/19/13 08:59	
1,3-Dichlorobenzene	mg/kg	ND	0.33	04/19/13 08:59	
1,4-Dichlorobenzene	mg/kg	ND	0.33	04/19/13 08:59	
2,4,5-Trichlorophenol	mg/kg	ND	0.33	04/19/13 08:59	
2,4,6-Trichlorophenol	mg/kg	ND	0.33	04/19/13 08:59	
2,4-Dichlorophenol	mg/kg	ND	0.33	04/19/13 08:59	
2,4-Dimethylphenol	mg/kg	ND	0.33	04/19/13 08:59	
2,4-Dinitrophenol	mg/kg	ND	0.33	04/19/13 08:59	
2,4-Dinitrotoluene	mg/kg	ND	0.33	04/19/13 08:59	
2,6-Dinitrotoluene	mg/kg	ND	0.33	04/19/13 08:59	
2-Chloronaphthalene	mg/kg	ND	0.33	04/19/13 08:59	
2-Chlorophenol	mg/kg	ND	0.33	04/19/13 08:59	
2-Methylnaphthalene	mg/kg	ND	0.33	04/19/13 08:59	
2-Methylphenol(o-Cresol)	mg/kg	ND	0.33	04/19/13 08:59	
2-Nitroaniline	mg/kg	ND	0.33	04/19/13 08:59	
2-Nitrophenol	mg/kg	ND	0.33	04/19/13 08:59	
3&4-Methylphenol	mg/kg	ND	0.66	04/19/13 08:59	
3,3'-Dichlorobenzidine	mg/kg	ND	0.33	04/19/13 08:59	
3-Nitroaniline	mg/kg	ND	0.33	04/19/13 08:59	
4,6-Dinitro-2-methylphenol	mg/kg	ND	1.7	04/19/13 08:59	
4-Bromophenylphenyl ether	mg/kg	ND	0.33	04/19/13 08:59	
4-Chloro-3-methylphenol	mg/kg	ND	0.33	04/19/13 08:59	
4-Chloroaniline	mg/kg	ND	0.33	04/19/13 08:59	CL
4-Chlorophenylphenyl ether	mg/kg	ND	0.33	04/19/13 08:59	
4-Nitroaniline	mg/kg	ND	0.33	04/19/13 08:59	
4-Nitrophenol	mg/kg	ND	0.33	04/19/13 08:59	
Acenaphthene	mg/kg	ND	0.33	04/19/13 08:59	
Acenaphthylene	mg/kg	ND	0.33	04/19/13 08:59	
Anthracene	mg/kg	ND	0.33	04/19/13 08:59	
Benzidine	mg/kg	ND	1.6	04/19/13 08:59	CL,SS
Benzo(a)anthracene	mg/kg	ND	0.33	04/19/13 08:59	
Benzo(a)pyrene	mg/kg	ND	0.33	04/19/13 08:59	
Benzo(b)fluoranthene	mg/kg	ND	0.33	04/19/13 08:59	
Benzo(g,h,i)perylene	mg/kg	ND	0.33	04/19/13 08:59	
Benzo(k)fluoranthene	mg/kg	ND	0.33	04/19/13 08:59	
Benzoic acid	mg/kg	ND	1.7	04/19/13 08:59	
Benzyl alcohol	mg/kg	ND	0.33	04/19/13 08:59	
bis(2-Chloroethoxy)methane	mg/kg	ND	0.33	04/19/13 08:59	2M
bis(2-Chloroethyl) ether	mg/kg	ND	0.33	04/19/13 08:59	
bis(2-Chloroisopropyl) ether	mg/kg	ND	0.33	04/19/13 08:59	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

METHOD BLANK: 1410703

Matrix: Solid

Associated Lab Samples: 10225292003, 10225292004, 10225292005, 10225292006, 10225292008, 10225292010, 10225292013,
10225292015, 10225292018, 10225292020, 10225292021, 10225292022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Ethylhexyl)phthalate	mg/kg	ND	0.33	04/19/13 08:59	
Butylbenzylphthalate	mg/kg	ND	0.33	04/19/13 08:59	
Chrysene	mg/kg	ND	0.33	04/19/13 08:59	
Di-n-butylphthalate	mg/kg	ND	0.33	04/19/13 08:59	
Di-n-octylphthalate	mg/kg	ND	0.33	04/19/13 08:59	
Dibenz(a,h)anthracene	mg/kg	ND	0.33	04/19/13 08:59	
Dibenzofuran	mg/kg	ND	0.33	04/19/13 08:59	
Diethylphthalate	mg/kg	ND	0.33	04/19/13 08:59	
Dimethylphthalate	mg/kg	ND	0.33	04/19/13 08:59	
Fluoranthene	mg/kg	ND	0.33	04/19/13 08:59	
Fluorene	mg/kg	ND	0.33	04/19/13 08:59	
Hexachloro-1,3-butadiene	mg/kg	ND	0.33	04/19/13 08:59	
Hexachlorobenzene	mg/kg	ND	0.33	04/19/13 08:59	
Hexachlorocyclopentadiene	mg/kg	ND	0.33	04/19/13 08:59	
Hexachloroethane	mg/kg	ND	0.33	04/19/13 08:59	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.33	04/19/13 08:59	
Isophorone	mg/kg	ND	0.33	04/19/13 08:59	
N-Nitroso-di-n-propylamine	mg/kg	ND	0.33	04/19/13 08:59	
N-Nitrosodiphenylamine	mg/kg	ND	0.33	04/19/13 08:59	
Naphthalene	mg/kg	ND	0.33	04/19/13 08:59	
Nitrobenzene	mg/kg	ND	0.33	04/19/13 08:59	
Pentachlorophenol	mg/kg	ND	0.67	04/19/13 08:59	
Phenanthren	mg/kg	ND	0.33	04/19/13 08:59	
Phenol	mg/kg	ND	0.33	04/19/13 08:59	
Pyrene	mg/kg	ND	0.33	04/19/13 08:59	
2,4,6-Tribromophenol (S)	%	79	46-125	04/19/13 08:59	
2-Fluorobiphenyl (S)	%	67	42-125	04/19/13 08:59	
2-Fluorophenol (S)	%	64	30-127	04/19/13 08:59	
Nitrobenzene-d5 (S)	%	60	30-127	04/19/13 08:59	
Phenol-d6 (S)	%	67	30-125	04/19/13 08:59	
Terphenyl-d14 (S)	%	76	51-125	04/19/13 08:59	

LABORATORY CONTROL SAMPLE: 1410704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	1.7	1.3	77	33-125	
1,2-Dichlorobenzene	mg/kg	1.7	1.2	74	30-125	
1,3-Dichlorobenzene	mg/kg	1.7	1.2	74	30-125	
1,4-Dichlorobenzene	mg/kg	1.7	1.2	74	30-125	
2,4,5-Trichlorophenol	mg/kg	1.7	1.4	81	51-125	
2,4,6-Trichlorophenol	mg/kg	1.7	1.3	80	49-125	
2,4-Dichlorophenol	mg/kg	1.7	1.3	79	45-125	
2,4-Dimethylphenol	mg/kg	1.7	1.3	78	41-125	
2,4-Dinitrophenol	mg/kg	1.7	1.4	84	30-125 CH	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

LABORATORY CONTROL SAMPLE: 1410704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	mg/kg	1.7	1.4	85	51-125	
2,6-Dinitrotoluene	mg/kg	1.7	1.4	85	51-125	
2-Chloronaphthalene	mg/kg	1.7	1.3	77	47-125	
2-Chlorophenol	mg/kg	1.7	1.3	76	34-125	
2-Methylnaphthalene	mg/kg	1.7	1.3	79	42-125	
2-Methylphenol(o-Cresol)	mg/kg	1.7	1.3	79	40-125	
2-Nitroaniline	mg/kg	1.7	1.4	82	48-125	
2-Nitrophenol	mg/kg	1.7	1.3	79	36-125	
3&4-Methylphenol	mg/kg	1.7	1.3	78	45-125	
3,3'-Dichlorobenzidine	mg/kg	1.7	1.2	70	33-125	
3-Nitroaniline	mg/kg	1.7	1.2	71	41-125	
4,6-Dinitro-2-methylphenol	mg/kg	1.7	1.4J	84	30-131	
4-Bromophenylphenyl ether	mg/kg	1.7	1.3	81	52-125	
4-Chloro-3-methylphenol	mg/kg	1.7	1.4	82	50-125	
4-Chloroaniline	mg/kg	1.7	0.86	52	30-125 CL	
4-Chlorophenylphenyl ether	mg/kg	1.7	1.4	82	50-125	
4-Nitroaniline	mg/kg	1.7	1.4	84	45-125	
4-Nitrophenol	mg/kg	1.7	1.6	94	41-125 CH	
Acenaphthene	mg/kg	1.7	1.4	82	48-125	
Acenaphthylene	mg/kg	1.7	1.3	79	48-125	
Anthracene	mg/kg	1.7	1.3	80	53-125	
Benzidine	mg/kg	1.7	ND	9	30-125 CL,L0,SS	
Benzo(a)anthracene	mg/kg	1.7	1.3	80	54-125	
Benzo(a)pyrene	mg/kg	1.7	1.3	80	51-125	
Benzo(b)fluoranthene	mg/kg	1.7	1.4	83	49-125	
Benzo(g,h,i)perylene	mg/kg	1.7	1.3	81	62-125	
Benzo(k)fluoranthene	mg/kg	1.7	1.3	81	54-125	
Benzoic acid	mg/kg	1.7	1.2J	73	33-125	
Benzyl alcohol	mg/kg	1.7	1.2	71	52-125	
bis(2-Chloroethoxy)methane	mg/kg	1.7	1.3	79	42-125 2M	
bis(2-Chloroethyl) ether	mg/kg	1.7	1.3	78	30-125	
bis(2-Chloroisopropyl) ether	mg/kg	1.7	1.3	79	30-131	
bis(2-Ethylhexyl)phthalate	mg/kg	1.7	1.4	83	50-125	
Butylbenzylphthalate	mg/kg	1.7	1.4	82	49-125	
Chrysene	mg/kg	1.7	1.4	82	55-125	
Di-n-butylphthalate	mg/kg	1.7	1.4	83	54-125	
Di-n-octylphthalate	mg/kg	1.7	1.4	83	48-125	
Dibenz(a,h)anthracene	mg/kg	1.7	1.4	82	52-125	
Dibenzofuran	mg/kg	1.7	1.3	80	50-125	
Diethylphthalate	mg/kg	1.7	1.4	82	52-125	
Dimethylphthalate	mg/kg	1.7	1.3	79	52-125	
Fluoranthene	mg/kg	1.7	1.3	81	52-125	
Fluorene	mg/kg	1.7	1.4	82	51-125	
Hexachloro-1,3-butadiene	mg/kg	1.7	1.3	77	30-125	
Hexachlorobenzene	mg/kg	1.7	1.3	80	51-125	
Hexachlorocyclopentadiene	mg/kg	1.7	1.4	83	37-125 CH	
Hexachloroethane	mg/kg	1.7	1.3	75	30-125	
Indeno(1,2,3-cd)pyrene	mg/kg	1.7	1.3	81	52-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

LABORATORY CONTROL SAMPLE: 1410704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isophorone	mg/kg	1.7	1.3	79	43-125	
N-Nitroso-di-n-propylamine	mg/kg	1.7	1.3	79	39-125	
N-Nitrosodiphenylamine	mg/kg	1.7	1.4	81	53-125	
Naphthalene	mg/kg	1.7	1.3	77	36-125	
Nitrobenzene	mg/kg	1.7	1.4	82	35-125	
Pentachlorophenol	mg/kg	1.7	1.4	85	38-125	
Phenanthrrene	mg/kg	1.7	1.4	81	53-125	
Phenol	mg/kg	1.7	1.3	77	36-125	
Pyrene	mg/kg	1.7	1.3	80	51-125	
2,4,6-Tribromophenol (S)	%			89	46-125	
2-Fluorobiphenyl (S)	%			75	42-125	
2-Fluorophenol (S)	%			74	30-127	
Nitrobenzene-d5 (S)	%			75	30-127	
Phenol-d6 (S)	%			75	30-125	
Terphenyl-d14 (S)	%			78	51-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1410705 1410706

Parameter	Units	10225057001		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike	Conc.	Spike	Conc.						
1,2,4-Trichlorobenzene	mg/kg	ND	2	2	1.6	1.3	81	65	49-125	21	30
1,2-Dichlorobenzene	mg/kg	ND	2	2	1.6	1.2	81	62	42-125	26	30
1,3-Dichlorobenzene	mg/kg	ND	2	2	1.6	1.2	80	62	39-125	24	30
1,4-Dichlorobenzene	mg/kg	ND	2	2	1.6	1.2	79	61	40-125	25	30
2,4,5-Trichlorophenol	mg/kg	ND	2	2	1.8	1.7	90	86	50-125	4	30
2,4,6-Trichlorophenol	mg/kg	ND	2	2	1.8	1.7	91	86	53-125	6	30
2,4-Dichlorophenol	mg/kg	ND	2	2	1.7	1.4	84	73	52-125	14	30
2,4-Dimethylphenol	mg/kg	ND	2	2	1.6	1.4	83	72	50-125	13	30
2,4-Dinitrophenol	mg/kg	ND	2	2	1.6	1.6	80	79	30-125	2	30 CH
2,4-Dinitrotoluene	mg/kg	ND	2	2	1.9	1.8	96	93	39-125	3	30
2,6-Dinitrotoluene	mg/kg	ND	2	2	1.8	1.8	93	90	45-125	3	30
2-Chloronaphthalene	mg/kg	ND	2	2	1.7	1.5	84	74	55-125	12	30
2-Chlorophenol	mg/kg	ND	2	2	1.6	1.3	83	67	47-125	21	30
2-Methylnaphthalene	mg/kg	ND	2	2	1.7	1.4	84	70	52-125	17	30
2-Methylphenol(o-Cresol)	mg/kg	ND	2	2	1.7	1.3	84	68	53-125	21	30
2-Nitroaniline	mg/kg	ND	2	2	1.9	1.9	98	94	45-125	4	30
2-Nitrophenol	mg/kg	ND	2	2	1.7	1.4	84	68	36-125	20	30
3&4-Methylphenol	mg/kg	ND	2	2	1.6	1.4	83	71	53-125	15	30
3,3'-Dichlorobenzidine	mg/kg	ND	2	2	1.4	1.4	71	73	30-125	2	30
3-Nitroaniline	mg/kg	ND	2	2	1.4	1.4	73	73	37-125	.7	30
4,6-Dinitro-2-methylphenol	mg/kg	ND	2	2	1.8J	1.7J	91	85	30-125		30
4-Bromophenylphenyl ether	mg/kg	ND	2	2	1.8	1.7	91	88	57-125	3	30
4-Chloro-3-methylphenol	mg/kg	ND	2	2	1.8	1.7	90	86	52-125	5	30
4-Chloroaniline	mg/kg	ND	2	2	0.87	0.87	44	44	30-125	.3	30 CL
4-Chlorophenylphenyl ether	mg/kg	ND	2	2	1.7	1.7	88	88	55-125	.4	30
4-Nitroaniline	mg/kg	ND	2	2	1.7	1.7	87	85	41-125	3	30
4-Nitrophenol	mg/kg	ND	2	2	2.2	2.0	110	100	43-125	8	30 CH

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

Parameter	Units	10225057001		MS		MSD		MS Result	% Rec	MSD Result	% Rec	% Rec Limits	Max		
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec						RPD	RPD	Qual
Acenaphthene	mg/kg	ND	2	2	1.8	1.6	90	83	51-125	8	30				
Acenaphthylene	mg/kg	ND	2	2	1.7	1.6	87	79	54-125	9	30				
Anthracene	mg/kg	ND	2	2	1.8	1.7	90	86	51-125	4	30				
Benzidine	mg/kg	ND	2	2	ND	ND	16	29	30-125	30	CL,M0, SS				
Benzo(a)anthracene	mg/kg	ND	2	2	1.7	1.7	89	87	54-125	2	30				
Benzo(a)pyrene	mg/kg	ND	2	2	1.8	1.7	89	88	53-125	2	30				
Benzo(b)fluoranthene	mg/kg	ND	2	2	1.8	1.8	91	91	51-125	.04	30				
Benzo(g,h,i)perylene	mg/kg	ND	2	2	1.8	1.8	89	89	43-125	.006	30				
Benzo(k)fluoranthene	mg/kg	ND	2	2	1.8	1.7	91	88	51-125	3	30				
Benzoic acid	mg/kg	ND	2	2	1J	1.2J	53	62	30-125		30				
Benzyl alcohol	mg/kg	ND	2	2	1.5	1.3	78	66	51-125	17	30				
bis(2-Chloroethoxy)methane	mg/kg	ND	2	2	1.6	1.4	82	69	49-125	16	30	2M			
bis(2-Chloroethyl) ether	mg/kg	ND	2	2	1.7	1.4	87	70	39-125	21	30				
bis(2-Chloroisopropyl) ether	mg/kg	ND	2	2	1.7	1.3	86	66	36-125	26	30				
bis(2-Ethylhexyl)phthalate	mg/kg	ND	2	2	1.8	1.8	93	89	46-125	3	30				
Butylbenzylphthalate	mg/kg	ND	2	2	1.8	1.8	90	90	49-125	.3	30				
Chrysene	mg/kg	ND	2	2	1.8	1.7	90	88	53-125	2	30				
Di-n-butylphthalate	mg/kg	ND	2	2	1.8	1.8	92	91	56-125	.8	30				
Di-n-octylphthalate	mg/kg	ND	2	2	1.8	1.8	92	90	48-125	.9	30				
Dibenz(a,h)anthracene	mg/kg	ND	2	2	1.8	1.8	91	89	52-125	2	30				
Dibenzofuran	mg/kg	ND	2	2	1.8	1.7	89	85	55-125	5	30				
Diethylphthalate	mg/kg	ND	2	2	1.8	1.8	92	90	57-125	2	30				
Dimethylphthalate	mg/kg	ND	2	2	1.8	1.7	90	86	56-125	4	30				
Fluoranthene	mg/kg	ND	2	2	1.8	1.7	91	88	51-125	3	30				
Fluorene	mg/kg	ND	2	2	1.8	1.7	92	86	54-125	6	30				
Hexachloro-1,3-butadiene	mg/kg	ND	2	2	1.6	1.3	81	65	45-125	21	30				
Hexachlorobenzene	mg/kg	ND	2	2	1.8	1.7	91	88	53-125	3	30				
Hexachlorocyclopentadiene	mg/kg	ND	2	2	1.6	1.3	80	65	30-125	20	30	CH			
Hexachloroethane	mg/kg	ND	2	2	1.6	1.2	79	62	30-125	24	30				
Indeno(1,2,3-cd)pyrene	mg/kg	ND	2	2	1.8	1.8	90	89	46-125	.6	30				
Isophorone	mg/kg	ND	2	2	1.7	1.5	85	75	50-125	13	30				
N-Nitroso-di-n-propylamine	mg/kg	ND	2	2	1.7	1.4	85	71	30-125	18	30				
N-Nitrosodiphenylamine	mg/kg	ND	2	2	1.8	1.7	89	87	54-125	2	30				
Naphthalene	mg/kg	ND	2	2	1.6	1.3	83	66	48-125	22	30				
Nitrobenzene	mg/kg	ND	2	2	1.7	1.4	85	71	48-125	17	30				
Pentachlorophenol	mg/kg	ND	2	2	1.9	1.8	96	91	30-125	6	30				
Phenanthrene	mg/kg	ND	2	2	1.8	1.7	91	88	53-125	3	30				
Phenol	mg/kg	ND	2	2	1.7	1.3	84	68	50-125	21	30				
Pyrene	mg/kg	ND	2	2	1.8	1.7	90	88	49-125	1	30				
2,4,6-Tribromophenol (S)	%						97	93	46-125						
2-Fluorobiphenyl (S)	%						83	73	42-125						
2-Fluorophenol (S)	%						83	62	30-127						
Nitrobenzene-d5 (S)	%						80	65	30-127						
Phenol-d6 (S)	%						85	68	30-125						
Terphenyl-d14 (S)	%						88	83	51-125						

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

QC Batch:	OEXT/21400	Analysis Method:	EPA 8270
QC Batch Method:	EPA 3520	Analysis Description:	8270 Water MSSV
Associated Lab Samples:	10225292002, 10225292007, 10225292009, 10225292012		

METHOD BLANK: 1410946 Matrix: Water

Associated Lab Samples: 10225292002, 10225292007, 10225292009, 10225292012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	04/19/13 09:32	
1,2-Dichlorobenzene	ug/L	ND	10.0	04/19/13 09:32	
1,3-Dichlorobenzene	ug/L	ND	10.0	04/19/13 09:32	
1,4-Dichlorobenzene	ug/L	ND	10.0	04/19/13 09:32	
2,4,5-Trichlorophenol	ug/L	ND	10.0	04/19/13 09:32	
2,4,6-Trichlorophenol	ug/L	ND	10.0	04/19/13 09:32	
2,4-Dichlorophenol	ug/L	ND	10.0	04/19/13 09:32	
2,4-Dimethylphenol	ug/L	ND	10.0	04/19/13 09:32	
2,4-Dinitrophenol	ug/L	ND	10.0	04/19/13 09:32	
2,4-Dinitrotoluene	ug/L	ND	10.0	04/19/13 09:32	
2,6-Dinitrotoluene	ug/L	ND	10.0	04/19/13 09:32	
2-Chloronaphthalene	ug/L	ND	10.0	04/19/13 09:32	
2-Chlorophenol	ug/L	ND	10.0	04/19/13 09:32	
2-Methylnaphthalene	ug/L	ND	10.0	04/19/13 09:32	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/19/13 09:32	
2-Nitroaniline	ug/L	ND	10.0	04/19/13 09:32	
2-Nitrophenol	ug/L	ND	10.0	04/19/13 09:32	
3&4-Methylphenol	ug/L	ND	20.0	04/19/13 09:32	
3,3'-Dichlorobenzidine	ug/L	ND	10.0	04/19/13 09:32	
3-Nitroaniline	ug/L	ND	10.0	04/19/13 09:32	
4,6-Dinitro-2-methylphenol	ug/L	ND	10.0	04/19/13 09:32	
4-Bromophenylphenyl ether	ug/L	ND	10.0	04/19/13 09:32	
4-Chloro-3-methylphenol	ug/L	ND	10.0	04/19/13 09:32	
4-Chloroaniline	ug/L	ND	10.0	04/19/13 09:32	CL,SS
4-Chlorophenylphenyl ether	ug/L	ND	10.0	04/19/13 09:32	
4-Nitroaniline	ug/L	ND	10.0	04/19/13 09:32	
4-Nitrophenol	ug/L	ND	10.0	04/19/13 09:32	
Acenaphthene	ug/L	ND	10.0	04/19/13 09:32	
Acenaphthylene	ug/L	ND	10.0	04/19/13 09:32	
Anthracene	ug/L	ND	10.0	04/19/13 09:32	
Benzo(a)anthracene	ug/L	ND	10.0	04/19/13 09:32	
Benzo(a)pyrene	ug/L	ND	10.0	04/19/13 09:32	
Benzo(b)fluoranthene	ug/L	ND	10.0	04/19/13 09:32	
Benzo(g,h,i)perylene	ug/L	ND	10.0	04/19/13 09:32	
Benzo(k)fluoranthene	ug/L	ND	10.0	04/19/13 09:32	
Benzoic acid	ug/L	ND	50.0	04/19/13 09:32	CL
Benzyl alcohol	ug/L	ND	10.0	04/19/13 09:32	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	04/19/13 09:32	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	04/19/13 09:32	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	04/19/13 09:32	
bis(2-Ethylhexyl)phthalate	ug/L	ND	10.0	04/19/13 09:32	
Butylbenzylphthalate	ug/L	ND	10.0	04/19/13 09:32	
Chrysene	ug/L	ND	10.0	04/19/13 09:32	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

METHOD BLANK: 1410946

Matrix: Water

Associated Lab Samples: 10225292002, 10225292007, 10225292009, 10225292012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Di-n-butylphthalate	ug/L	ND	10.0	04/19/13 09:32	
Di-n-octylphthalate	ug/L	ND	10.0	04/19/13 09:32	
Dibenz(a,h)anthracene	ug/L	ND	10.0	04/19/13 09:32	
Dibenzofuran	ug/L	ND	10.0	04/19/13 09:32	
Diethylphthalate	ug/L	ND	10.0	04/19/13 09:32	
Dimethylphthalate	ug/L	ND	10.0	04/19/13 09:32	
Fluoranthene	ug/L	ND	10.0	04/19/13 09:32	
Fluorene	ug/L	ND	10.0	04/19/13 09:32	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	04/19/13 09:32	
Hexachlorobenzene	ug/L	ND	10.0	04/19/13 09:32	
Hexachloroethane	ug/L	ND	10.0	04/19/13 09:32	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	04/19/13 09:32	
Isophorone	ug/L	ND	10.0	04/19/13 09:32	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	04/19/13 09:32	
N-Nitrosodiphenylamine	ug/L	ND	10.0	04/19/13 09:32	
Naphthalene	ug/L	ND	10.0	04/19/13 09:32	
Nitrobenzene	ug/L	ND	10.0	04/19/13 09:32	
Pentachlorophenol	ug/L	ND	20.0	04/19/13 09:32	
Phenanthrene	ug/L	ND	10.0	04/19/13 09:32	
Phenol	ug/L	ND	10.0	04/19/13 09:32	
Pyrene	ug/L	ND	10.0	04/19/13 09:32	
2,4,6-Tribromophenol (S)	%	86	55-125	04/19/13 09:32	
2-Fluorobiphenyl (S)	%	76	60-125	04/19/13 09:32	
2-Fluorophenol (S)	%	76	53-125	04/19/13 09:32	
Nitrobenzene-d5 (S)	%	78	60-125	04/19/13 09:32	
Phenol-d6 (S)	%	78	56-125	04/19/13 09:32	
Terphenyl-d14 (S)	%	93	56-125	04/19/13 09:32	

LABORATORY CONTROL SAMPLE & LCSD: 1410947

1410948

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	37.3	38.9	75	78	62-125	4	20	
1,2-Dichlorobenzene	ug/L	50	36.0	36.4	72	73	57-125	1	20	
1,3-Dichlorobenzene	ug/L	50	35.2	36.0	70	72	54-125	2	20	
1,4-Dichlorobenzene	ug/L	50	35.2	35.9	70	72	55-125	2	20	
2,4,5-Trichlorophenol	ug/L	50	43.5	45.8	87	92	66-125	5	20	
2,4,6-Trichlorophenol	ug/L	50	42.7	45.2	85	90	65-125	6	20	
2,4-Dichlorophenol	ug/L	50	40.0	42.0	80	84	65-125	5	20	
2,4-Dimethylphenol	ug/L	50	39.2	37.2	78	74	54-125	5	20	
2,4-Dinitrophenol	ug/L	50	36.0	37.7	72	75	30-127	5	20	
2,4-Dinitrotoluene	ug/L	50	44.3	46.7	89	93	70-125	5	20	
2,6-Dinitrotoluene	ug/L	50	44.0	46.7	88	93	71-125	6	20	
2-Chloronaphthalene	ug/L	50	41.6	43.5	83	87	67-125	5	20	
2-Chlorophenol	ug/L	50	36.7	37.7	73	75	58-125	3	20	
2-Methylnaphthalene	ug/L	50	39.9	42.3	80	85	67-125	6	20	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

Parameter	Units	Spike	LCS	LCSD	LCS	LCSD	% Rec	RPD	Max	Qualifiers
		Conc.	Result	% Rec	% Rec	% Rec	Limits		RPD	
2-Methylphenol(o-Cresol)	ug/L	50	37.4	39.0	75	78	60-125	4	20	
2-Nitroaniline	ug/L	50	43.4	46.5	87	93	65-125	7	20	
2-Nitrophenol	ug/L	50	38.7	40.9	77	82	61-125	5	20	
3&4-Methylphenol	ug/L	50	38.7	40.4	77	81	61-125	4	20	
3,3'-Dichlorobenzidine	ug/L	50	9.5J	47.8	19	96	54-128		20	L0
3-Nitroaniline	ug/L	50	25.8	49.5	52	99	65-125	63	20	L0,R1
4,6-Dinitro-2-methylphenol	ug/L	50	39.2	41.9	78	84	30-138	7	20	
4-Bromophenylphenyl ether	ug/L	50	43.6	46.6	87	93	71-125	7	20	
4-Chloro-3-methylphenol	ug/L	50	41.9	45.1	84	90	68-125	7	20	
4-Chloroaniline	ug/L	50	4.7J	42.8	9	86	56-125		20	CL,L0,SS
4-Chlorophenylphenyl ether	ug/L	50	44.4	46.4	89	93	70-125	4	20	
4-Nitroaniline	ug/L	50	37.9	46.6	76	93	55-125	21	20	R1
4-Nitrophenol	ug/L	50	42.1	44.2	84	88	57-125	5	20	
Acenaphthene	ug/L	50	42.6	45.1	85	90	67-125	6	20	
Acenaphthylene	ug/L	50	42.4	45.3	85	91	68-125	7	20	
Anthracene	ug/L	50	43.8	46.8	88	94	71-125	7	20	
Benzo(a)anthracene	ug/L	50	44.9	47.6	90	95	72-125	6	20	
Benzo(a)pyrene	ug/L	50	44.4	47.0	89	94	71-125	6	20	
Benzo(b)fluoranthene	ug/L	50	45.5	47.9	91	96	72-125	5	20	
Benzo(g,h,i)perylene	ug/L	50	43.7	46.6	87	93	70-125	6	20	
Benzo(k)fluoranthene	ug/L	50	44.3	47.1	89	94	70-125	6	20	
Benzoic acid	ug/L	50	31.1J	ND	62	41	30-125		20	CL
Benzyl alcohol	ug/L	50	35.2	36.4	70	73	62-125	3	20	
bis(2-Chloroethoxy)methane	ug/L	50	38.7	41.3	77	83	63-125	6	20	
bis(2-Chloroethyl) ether	ug/L	50	35.8	36.2	72	72	53-125	1	20	
bis(2-Chloroisopropyl) ether	ug/L	50	35.0	36.3	70	73	36-126	4	20	
bis(2-Ethylhexyl)phthalate	ug/L	50	46.0	48.7	92	97	67-125	6	20	
Butylbenzylphthalate	ug/L	50	45.0	47.5	90	95	68-125	6	20	
Chrysene	ug/L	50	43.8	46.6	88	93	72-125	6	20	
Di-n-butylphthalate	ug/L	50	45.3	47.5	91	95	71-125	5	20	
Di-n-octylphthalate	ug/L	50	45.4	48.3	91	97	67-125	6	20	
Dibenz(a,h)anthracene	ug/L	50	44.9	47.5	90	95	70-125	6	20	
Dibenzofuran	ug/L	50	43.0	45.2	86	90	69-125	5	20	
Diethylphthalate	ug/L	50	43.5	46.1	87	92	70-125	6	20	
Dimethylphthalate	ug/L	50	43.8	45.9	88	92	70-125	5	20	
Fluoranthene	ug/L	50	44.5	47.4	89	95	72-125	6	20	
Fluorene	ug/L	50	44.1	46.3	88	93	70-125	5	20	
Hexachloro-1,3-butadiene	ug/L	50	36.6	37.9	73	76	57-125	3	20	
Hexachlorobenzene	ug/L	50	43.3	46.6	87	93	70-125	7	20	
Hexachloroethane	ug/L	50	34.5	35.1	69	70	45-125	2	20	
Indeno(1,2,3-cd)pyrene	ug/L	50	44.4	47.2	89	94	71-125	6	20	
Isophorone	ug/L	50	40.4	43.2	81	86	68-125	7	20	
N-Nitroso-di-n-propylamine	ug/L	50	38.9	40.9	78	82	62-125	5	20	
N-Nitrosodiphenylamine	ug/L	50	40.0	46.2	80	92	69-125	14	20	
Naphthalene	ug/L	50	37.8	39.7	76	79	65-125	5	20	
Nitrobenzene	ug/L	50	37.2	38.8	74	78	63-125	4	20	
Pentachlorophenol	ug/L	50	41.9	45.3	84	91	50-125	8	20	
Phenanthrene	ug/L	50	43.3	46.2	87	92	72-125	6	20	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

LABORATORY CONTROL SAMPLE & LCSD:		1410947		1410948							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Phenol	ug/L	50	37.3	38.4	75	77	56-125	3	20		
Pyrene	ug/L	50	43.9	46.7	88	93	69-125	6	20		
2,4,6-Tribromophenol (S)	%				84	86	55-125				
2-Fluorobiphenyl (S)	%				78	78	60-125				
2-Fluorophenol (S)	%				69	68	53-125				
Nitrobenzene-d5 (S)	%				72	72	60-125				
Phenol-d6 (S)	%				72	72	56-125				
Terphenyl-d14 (S)	%				82	84	56-125				

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

QC Batch:	OEXT/21419	Analysis Method:	EPA 8270
QC Batch Method:	EPA 3520	Analysis Description:	8270 Water MSSV
Associated Lab Samples:	10225292019		

METHOD BLANK: 1412090 Matrix: Water

Associated Lab Samples: 10225292019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	04/22/13 10:18	
1,2-Dichlorobenzene	ug/L	ND	10.0	04/22/13 10:18	
1,3-Dichlorobenzene	ug/L	ND	10.0	04/22/13 10:18	
1,4-Dichlorobenzene	ug/L	ND	10.0	04/22/13 10:18	
2,4,5-Trichlorophenol	ug/L	ND	10.0	04/22/13 10:18	
2,4,6-Trichlorophenol	ug/L	ND	10.0	04/22/13 10:18	
2,4-Dichlorophenol	ug/L	ND	10.0	04/22/13 10:18	
2,4-Dimethylphenol	ug/L	ND	10.0	04/22/13 10:18	
2,4-Dinitrophenol	ug/L	ND	10.0	04/22/13 10:18	
2,4-Dinitrotoluene	ug/L	ND	10.0	04/22/13 10:18	
2,6-Dinitrotoluene	ug/L	ND	10.0	04/22/13 10:18	
2-Chloronaphthalene	ug/L	ND	10.0	04/22/13 10:18	
2-Chlorophenol	ug/L	ND	10.0	04/22/13 10:18	
2-Methylnaphthalene	ug/L	ND	10.0	04/22/13 10:18	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/22/13 10:18	
2-Nitroaniline	ug/L	ND	10.0	04/22/13 10:18	
2-Nitrophenol	ug/L	ND	10.0	04/22/13 10:18	
3&4-Methylphenol	ug/L	ND	20.0	04/22/13 10:18	
3,3'-Dichlorobenzidine	ug/L	ND	10.0	04/22/13 10:18	
3-Nitroaniline	ug/L	ND	10.0	04/22/13 10:18	
4,6-Dinitro-2-methylphenol	ug/L	ND	10.0	04/22/13 10:18	
4-Bromophenylphenyl ether	ug/L	ND	10.0	04/22/13 10:18	
4-Chloro-3-methylphenol	ug/L	ND	10.0	04/22/13 10:18	
4-Chloroaniline	ug/L	ND	10.0	04/22/13 10:18	SS
4-Chlorophenylphenyl ether	ug/L	ND	10.0	04/22/13 10:18	
4-Nitroaniline	ug/L	ND	10.0	04/22/13 10:18	
4-Nitrophenol	ug/L	ND	10.0	04/22/13 10:18	
Acenaphthene	ug/L	ND	10.0	04/22/13 10:18	
Acenaphthylene	ug/L	ND	10.0	04/22/13 10:18	
Anthracene	ug/L	ND	10.0	04/22/13 10:18	
Benzo(a)anthracene	ug/L	ND	10.0	04/22/13 10:18	
Benzo(a)pyrene	ug/L	ND	10.0	04/22/13 10:18	
Benzo(b)fluoranthene	ug/L	ND	10.0	04/22/13 10:18	
Benzo(g,h,i)perylene	ug/L	ND	10.0	04/22/13 10:18	
Benzo(k)fluoranthene	ug/L	ND	10.0	04/22/13 10:18	
Benzoic acid	ug/L	ND	50.0	04/22/13 10:18	CL
Benzyl alcohol	ug/L	ND	10.0	04/22/13 10:18	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	04/22/13 10:18	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	04/22/13 10:18	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	04/22/13 10:18	
bis(2-Ethylhexyl)phthalate	ug/L	ND	10.0	04/22/13 10:18	
Butylbenzylphthalate	ug/L	ND	10.0	04/22/13 10:18	
Chrysene	ug/L	ND	10.0	04/22/13 10:18	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

METHOD BLANK: 1412090

Matrix: Water

Associated Lab Samples: 10225292019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Di-n-butylphthalate	ug/L	ND	10.0	04/22/13 10:18	
Di-n-octylphthalate	ug/L	ND	10.0	04/22/13 10:18	
Dibenz(a,h)anthracene	ug/L	ND	10.0	04/22/13 10:18	
Dibenzofuran	ug/L	ND	10.0	04/22/13 10:18	
Diethylphthalate	ug/L	ND	10.0	04/22/13 10:18	
Dimethylphthalate	ug/L	ND	10.0	04/22/13 10:18	
Fluoranthene	ug/L	ND	10.0	04/22/13 10:18	
Fluorene	ug/L	ND	10.0	04/22/13 10:18	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	04/22/13 10:18	
Hexachlorobenzene	ug/L	ND	10.0	04/22/13 10:18	
Hexachloroethane	ug/L	ND	10.0	04/22/13 10:18	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	04/22/13 10:18	
Isophorone	ug/L	ND	10.0	04/22/13 10:18	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	04/22/13 10:18	
N-Nitrosodiphenylamine	ug/L	ND	10.0	04/22/13 10:18	
Naphthalene	ug/L	ND	10.0	04/22/13 10:18	
Nitrobenzene	ug/L	ND	10.0	04/22/13 10:18	
Pentachlorophenol	ug/L	ND	20.0	04/22/13 10:18	
Phenanthrene	ug/L	ND	10.0	04/22/13 10:18	
Phenol	ug/L	ND	10.0	04/22/13 10:18	
Pyrene	ug/L	ND	10.0	04/22/13 10:18	
2,4,6-Tribromophenol (S)	%	86	55-125	04/22/13 10:18	
2-Fluorobiphenyl (S)	%	79	60-125	04/22/13 10:18	
2-Fluorophenol (S)	%	74	53-125	04/22/13 10:18	
Nitrobenzene-d5 (S)	%	77	60-125	04/22/13 10:18	
Phenol-d6 (S)	%	79	56-125	04/22/13 10:18	
Terphenyl-d14 (S)	%	88	56-125	04/22/13 10:18	

LABORATORY CONTROL SAMPLE & LCSD: 1412091

1412092

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.4	43.2	79	86	62-125	9	20	
1,2-Dichlorobenzene	ug/L	50	36.0	40.8	72	82	57-125	12	20	
1,3-Dichlorobenzene	ug/L	50	35.9	40.6	72	81	54-125	12	20	
1,4-Dichlorobenzene	ug/L	50	35.7	40.5	71	81	55-125	12	20	
2,4,5-Trichlorophenol	ug/L	50	47.5	49.0	95	98	66-125	3	20	
2,4,6-Trichlorophenol	ug/L	50	46.1	48.5	92	97	65-125	5	20	
2,4-Dichlorophenol	ug/L	50	42.9	45.5	86	91	65-125	6	20	
2,4-Dimethylphenol	ug/L	50	37.2	39.6	74	79	54-125	6	20	
2,4-Dinitrophenol	ug/L	50	38.2	40.4	76	81	30-127	6	20	
2,4-Dinitrotoluene	ug/L	50	49.3	50.5	99	101	70-125	2	20	
2,6-Dinitrotoluene	ug/L	50	48.9	50.3	98	101	71-125	3	20	
2-Chloronaphthalene	ug/L	50	44.3	46.1	89	92	67-125	4	20	
2-Chlorophenol	ug/L	50	37.5	41.6	75	83	58-125	10	20	
2-Methylnaphthalene	ug/L	50	43.1	45.3	86	91	67-125	5	20	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

Parameter	Units	Spike	LCS	LCSD	LCS	LCSD	% Rec	RPD	Max	Qualifiers
		Conc.	Result	% Rec	% Rec	% Rec	Limits		RPD	
2-Methylphenol(o-Cresol)	ug/L	50	40.2	42.8	80	86	60-125	6	20	
2-Nitroaniline	ug/L	50	47.7	49.5	95	99	65-125	4	20	
2-Nitrophenol	ug/L	50	42.6	45.4	85	91	61-125	6	20	
3&4-Methylphenol	ug/L	50	41.4	43.8	83	88	61-125	6	20	
3,3'-Dichlorobenzidine	ug/L	50	48.4	50.8	97	102	54-128	5	20	
3-Nitroaniline	ug/L	50	50.7	53.8	101	108	65-125	6	20	
4,6-Dinitro-2-methylphenol	ug/L	50	44.2	46.0	88	92	30-138	4	20	
4-Bromophenylphenyl ether	ug/L	50	48.0	50.1	96	100	71-125	4	20	
4-Chloro-3-methylphenol	ug/L	50	46.8	49.0	94	98	68-125	5	20	
4-Chloroaniline	ug/L	50	28.9	43.2	58	86	56-125	40	20	R1,SS
4-Chlorophenylphenyl ether	ug/L	50	47.3	49.6	95	99	70-125	5	20	
4-Nitroaniline	ug/L	50	47.4	49.0	95	98	55-125	3	20	
4-Nitrophenol	ug/L	50	44.1	46.9	88	94	57-125	6	20	
Acenaphthene	ug/L	50	45.7	47.1	91	94	67-125	3	20	
Acenaphthylene	ug/L	50	45.2	46.9	90	94	68-125	4	20	
Anthracene	ug/L	50	47.8	49.5	96	99	71-125	3	20	
Benzo(a)anthracene	ug/L	50	47.3	51.0	95	102	72-125	7	20	
Benzo(a)pyrene	ug/L	50	47.2	50.1	94	100	71-125	6	20	
Benzo(b)fluoranthene	ug/L	50	48.6	51.0	97	102	72-125	5	20	
Benzo(g,h,i)perylene	ug/L	50	47.6	51.0	95	102	70-125	7	20	
Benzo(k)fluoranthene	ug/L	50	47.2	51.2	94	102	70-125	8	20	
Benzoic acid	ug/L	50	ND	ND	46	36	30-125		20	CL
Benzyl alcohol	ug/L	50	40.0	43.3	80	87	62-125	8	20	
bis(2-Chloroethoxy)methane	ug/L	50	42.5	44.9	85	90	63-125	6	20	
bis(2-Chloroethyl) ether	ug/L	50	37.2	40.7	74	81	53-125	9	20	
bis(2-Chloroisopropyl) ether	ug/L	50	37.3	40.1	75	80	36-126	7	20	
bis(2-Ethylhexyl)phthalate	ug/L	50	51.6	52.8	103	106	67-125	2	20	
Butylbenzylphthalate	ug/L	50	50.1	52.8	100	106	68-125	5	20	
Chrysene	ug/L	50	47.3	50.3	95	101	72-125	6	20	
Di-n-butylphthalate	ug/L	50	50.3	51.7	101	103	71-125	3	20	
Di-n-octylphthalate	ug/L	50	50.2	54.1	100	108	67-125	8	20	
Dibenz(a,h)anthracene	ug/L	50	48.0	51.5	96	103	70-125	7	20	
Dibenzofuran	ug/L	50	46.2	47.7	92	95	69-125	3	20	
Diethylphthalate	ug/L	50	48.1	49.9	96	100	70-125	4	20	
Dimethylphthalate	ug/L	50	48.1	49.4	96	99	70-125	3	20	
Fluoranthene	ug/L	50	48.6	51.1	97	102	72-125	5	20	
Fluorene	ug/L	50	46.9	48.6	94	97	70-125	4	20	
Hexachloro-1,3-butadiene	ug/L	50	38.2	42.5	76	85	57-125	10	20	
Hexachlorobenzene	ug/L	50	47.0	49.4	94	99	70-125	5	20	
Hexachloroethane	ug/L	50	35.0	40.4	70	81	45-125	14	20	
Indeno(1,2,3-cd)pyrene	ug/L	50	47.8	51.2	96	102	71-125	7	20	
Isophorone	ug/L	50	43.8	45.9	88	92	68-125	5	20	
N-Nitroso-di-n-propylamine	ug/L	50	41.8	43.8	84	88	62-125	5	20	
N-Nitrosodiphenylamine	ug/L	50	48.0	49.1	96	98	69-125	2	20	
Naphthalene	ug/L	50	40.7	43.0	81	86	65-125	5	20	
Nitrobenzene	ug/L	50	40.1	42.7	80	85	63-125	6	20	
Pentachlorophenol	ug/L	50	46.8	48.9	94	98	50-125	4	20	
Phenanthrene	ug/L	50	47.8	49.4	96	99	72-125	3	20	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

LABORATORY CONTROL SAMPLE & LCSD:		1412091		1412092							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Phenol	ug/L	50	38.7	42.0	77	84	56-125	8	20		
Pyrene	ug/L	50	48.1	50.8	96	102	69-125	5	20		
2,4,6-Tribromophenol (S)	%				90	91	55-125				
2-Fluorobiphenyl (S)	%				80	83	60-125				
2-Fluorophenol (S)	%				68	75	53-125				
Nitrobenzene-d5 (S)	%				76	81	60-125				
Phenol-d6 (S)	%				73	79	56-125				
Terphenyl-d14 (S)	%				89	91	56-125				

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

QC Batch: OEXT/21389 Analysis Method: WI MOD DRO

QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS

Associated Lab Samples: 10225292003, 10225292004, 10225292005, 10225292006

METHOD BLANK: 1410379 Matrix: Solid

Associated Lab Samples: 10225292003, 10225292004, 10225292005, 10225292006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	ND	10.0	04/18/13 08:24	
n-Triacontane (S)	%	83	50-150	04/18/13 08:24	

LABORATORY CONTROL SAMPLE & LCSD: 1410380 1410381

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/kg	80	78.3	75.9	98	95	70-120	3	20	
n-Triacontane (S)	%				95	88	50-150			

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

QC Batch: OEXT/21403 Analysis Method: WI MOD DRO

QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS

Associated Lab Samples: 10225292008, 10225292010, 10225292013, 10225292015, 10225292018, 10225292020, 10225292021, 10225292022

METHOD BLANK: 1411024 Matrix: Solid

Associated Lab Samples: 10225292008, 10225292010, 10225292013, 10225292015, 10225292018, 10225292020, 10225292021, 10225292022

Parameter	Units	Blank Result	Reporting Limit		Analyzed	Qualifiers
			Limit	Analyzed		
Diesel Range Organics	mg/kg	ND	10.0	04/21/13 14:20		
n-Triacontane (S)	%	79	50-150	04/21/13 14:20		

LABORATORY CONTROL SAMPLE & LCSD: 1411025 1411026

Parameter	Units	Spike Conc.	LCS	LCSD	LCS	LCSD	% Rec	RPD	Max RPD	Qualifiers
			Result	Result	% Rec	% Rec	Limits			
Diesel Range Organics	mg/kg	80	72.1	73.4	90	92	70-120	2	20	
n-Triacontane (S)	%				88	89	50-150			

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

QC Batch: OEXT/21401 Analysis Method: WI MOD DRO

QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS

Associated Lab Samples: 10225292002, 10225292007, 10225292009, 10225292012

METHOD BLANK: 1410977 Matrix: Water

Associated Lab Samples: 10225292002, 10225292007, 10225292009, 10225292012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	ug/L	ND	100	04/19/13 04:29	
n-Triacontane (S)	%	80	50-150	04/19/13 04:29	

LABORATORY CONTROL SAMPLE & LCSD: 1410978 1410979

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	ug/L	2000	1390	1640	70	82	75-115	16	20	C0,L0
n-Triacontane (S)	%				78	88	50-150			

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10225292

QC Batch: OEXT/21409 Analysis Method: WI MOD DRO

QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS

Associated Lab Samples: 10225292019

METHOD BLANK: 1411403 Matrix: Water

Associated Lab Samples: 10225292019

Parameter	Units	Blank Result	Reporting Limit		Analyzed	Qualifiers
Diesel Range Organics	ug/L	ND	100	04/19/13 22:40		
n-Triacontane (S)	%	86	50-150	04/19/13 22:40		

LABORATORY CONTROL SAMPLE & LCSD: 1411404 1411405

Parameter	Units	Spike Conc.	LCS	LCSD	LCS	LCSD	% Rec	RPD	Max RPD	Qualifiers
			Result	Result	% Rec	% Rec	Limits			
Diesel Range Organics	ug/L	2000	2010	2000	100	100	75-115	.4	20	
n-Triacontane (S)	%				103	100	50-150			

QUALIFIERS

Project: MCES 123840
 Pace Project No.: 10225292

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSSV/9182

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSSV/9187

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

- 1M Post-analysis pH measurement indicates insufficient VOA sample preservation. Therefore, analysis was conducted outside the recognized method holding time.
- 2M RF failed in the external check for the 8270D method.
- C0 Result confirmed by second analysis.
- CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
- CL The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- D4 Sample was diluted due to the presence of high levels of target analytes.
- L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
- L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

QUALIFIERS

Project: MCES 123840
Pace Project No.: 10225292

ANALYTE QUALIFIERS

- P2 Re-extraction or re-analysis could not be performed due to insufficient sample amount.
- P3 Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.
- P4 Sample field preservation does not meet EPA or method recommendations for this analysis.
- R1 RPD value was outside control limits.
- S1 Surrogate recovery outside laboratory control limits (confirmed by re-analysis).
- S4 Surrogate recovery not evaluated against control limits due to sample dilution.
- SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.
- T6 High boiling point hydrocarbons are present in the sample.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCES 123840
Pace Project No.: 10225292

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10225292003	GP-1-16	WI MOD DRO	OEXT/21389	WI MOD DRO	GCSV/11144
10225292004	GP-2-8	WI MOD DRO	OEXT/21389	WI MOD DRO	GCSV/11144
10225292005	GP-3-8	WI MOD DRO	OEXT/21389	WI MOD DRO	GCSV/11144
10225292006	GP-3-4	WI MOD DRO	OEXT/21389	WI MOD DRO	GCSV/11144
10225292008	GP-4-2	WI MOD DRO	OEXT/21403	WI MOD DRO	GCSV/11166
10225292010	GP-5-2	WI MOD DRO	OEXT/21403	WI MOD DRO	GCSV/11166
10225292013	GP-6-4	WI MOD DRO	OEXT/21403	WI MOD DRO	GCSV/11166
10225292015	GP-7-3	WI MOD DRO	OEXT/21403	WI MOD DRO	GCSV/11166
10225292018	GP-8-3	WI MOD DRO	OEXT/21403	WI MOD DRO	GCSV/11166
10225292020	GP-9-2	WI MOD DRO	OEXT/21403	WI MOD DRO	GCSV/11166
10225292021	GP-10-7	WI MOD DRO	OEXT/21403	WI MOD DRO	GCSV/11166
10225292022	GP-11-2	WI MOD DRO	OEXT/21403	WI MOD DRO	GCSV/11166
10225292002	GP-1-5W	WI MOD DRO	OEXT/21401	WI MOD DRO	GCSV/11149
10225292007	GP-3-9W	WI MOD DRO	OEXT/21401	WI MOD DRO	GCSV/11149
10225292009	GP-4-18W	WI MOD DRO	OEXT/21401	WI MOD DRO	GCSV/11149
10225292012	GP-5-14W	WI MOD DRO	OEXT/21401	WI MOD DRO	GCSV/11149
10225292019	GP-9-5W	WI MOD DRO	OEXT/21409	WI MOD DRO	GCSV/11157
10225292003	GP-1-16	TPH GRO/PVOC WI ext.	GCV/10597	WI MOD GRO	GCV/10598
10225292004	GP-2-8	TPH GRO/PVOC WI ext.	GCV/10597	WI MOD GRO	GCV/10598
10225292005	GP-3-8	TPH GRO/PVOC WI ext.	GCV/10597	WI MOD GRO	GCV/10598
10225292006	GP-3-4	TPH GRO/PVOC WI ext.	GCV/10597	WI MOD GRO	GCV/10598
10225292008	GP-4-2	TPH GRO/PVOC WI ext.	GCV/10597	WI MOD GRO	GCV/10598
10225292010	GP-5-2	TPH GRO/PVOC WI ext.	GCV/10597	WI MOD GRO	GCV/10598
10225292013	GP-6-4	TPH GRO/PVOC WI ext.	GCV/10597	WI MOD GRO	GCV/10598
10225292015	GP-7-3	TPH GRO/PVOC WI ext.	GCV/10597	WI MOD GRO	GCV/10598
10225292018	GP-8-3	TPH GRO/PVOC WI ext.	GCV/10608	WI MOD GRO	GCV/10609
10225292020	GP-9-2	TPH GRO/PVOC WI ext.	GCV/10608	WI MOD GRO	GCV/10609
10225292021	GP-10-7	TPH GRO/PVOC WI ext.	GCV/10608	WI MOD GRO	GCV/10609
10225292022	GP-11-2	TPH GRO/PVOC WI ext.	GCV/10608	WI MOD GRO	GCV/10609
10225292024	Trip Blank	TPH GRO/PVOC WI ext.	GCV/10608	WI MOD GRO	GCV/10609
10225292002	GP-1-5W	WI MOD GRO	GCV/10614		
10225292007	GP-3-9W	WI MOD GRO	GCV/10614		
10225292009	GP-4-18W	WI MOD GRO	GCV/10614		
10225292012	GP-5-14W	WI MOD GRO	GCV/10614		
10225292019	GP-9-5W	WI MOD GRO	GCV/10614		
10225292025	Trip Blank	WI MOD GRO	GCV/10614		
10225292003	GP-1-16	EPA 3050	MPRP/38523	EPA 6010	ICP/16150
10225292004	GP-2-8	EPA 3050	MPRP/38523	EPA 6010	ICP/16150
10225292005	GP-3-8	EPA 3050	MPRP/38523	EPA 6010	ICP/16150
10225292006	GP-3-4	EPA 3050	MPRP/38523	EPA 6010	ICP/16150
10225292008	GP-4-2	EPA 3050	MPRP/38523	EPA 6010	ICP/16150
10225292010	GP-5-2	EPA 3050	MPRP/38523	EPA 6010	ICP/16150
10225292013	GP-6-4	EPA 3050	MPRP/38523	EPA 6010	ICP/16150
10225292015	GP-7-3	EPA 3050	MPRP/38523	EPA 6010	ICP/16150
10225292018	GP-8-3	EPA 3050	MPRP/38523	EPA 6010	ICP/16150

Date: 04/25/2013 04:09 PM

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCES 123840
Pace Project No.: 10225292

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10225292020	GP-9-2	EPA 3050	MPRP/38523	EPA 6010	ICP/16150
10225292021	GP-10-7	EPA 3050	MPRP/38523	EPA 6010	ICP/16150
10225292022	GP-11-2	EPA 3050	MPRP/38523	EPA 6010	ICP/16150
10225292002	GP-1-5W	EPA 3010	MPRP/38549	EPA 6010	ICP/16158
10225292007	GP-3-9W	EPA 3010	MPRP/38549	EPA 6010	ICP/16158
10225292009	GP-4-18W	EPA 3010	MPRP/38549	EPA 6010	ICP/16158
10225292012	GP-5-14W	EPA 3010	MPRP/38549	EPA 6010	ICP/16158
10225292019	GP-9-5W	EPA 3010	MPRP/38549	EPA 6010	ICP/16158
10225292002	GP-1-5W	EPA 7470	MERP/8262	EPA 7470	MERC/9389
10225292007	GP-3-9W	EPA 7470	MERP/8262	EPA 7470	MERC/9389
10225292009	GP-4-18W	EPA 7470	MERP/8262	EPA 7470	MERC/9389
10225292012	GP-5-14W	EPA 7470	MERP/8262	EPA 7470	MERC/9389
10225292019	GP-9-5W	EPA 7470	MERP/8262	EPA 7470	MERC/9389
10225292003	GP-1-16	EPA 7471	MERP/8261	EPA 7471	MERC/9393
10225292004	GP-2-8	EPA 7471	MERP/8261	EPA 7471	MERC/9393
10225292005	GP-3-8	EPA 7471	MERP/8261	EPA 7471	MERC/9393
10225292006	GP-3-4	EPA 7471	MERP/8261	EPA 7471	MERC/9393
10225292008	GP-4-2	EPA 7471	MERP/8261	EPA 7471	MERC/9393
10225292010	GP-5-2	EPA 7471	MERP/8261	EPA 7471	MERC/9393
10225292013	GP-6-4	EPA 7471	MERP/8261	EPA 7471	MERC/9393
10225292015	GP-7-3	EPA 7471	MERP/8261	EPA 7471	MERC/9393
10225292018	GP-8-3	EPA 7471	MERP/8261	EPA 7471	MERC/9393
10225292020	GP-9-2	EPA 7471	MERP/8261	EPA 7471	MERC/9393
10225292021	GP-10-7	EPA 7471	MERP/8261	EPA 7471	MERC/9393
10225292022	GP-11-2	EPA 7471	MERP/8261	EPA 7471	MERC/9393
10225292003	GP-1-16	ASTM D2974	MPRP/38532		
10225292004	GP-2-8	ASTM D2974	MPRP/38532		
10225292005	GP-3-8	ASTM D2974	MPRP/38532		
10225292006	GP-3-4	ASTM D2974	MPRP/38532		
10225292008	GP-4-2	ASTM D2974	MPRP/38532		
10225292010	GP-5-2	ASTM D2974	MPRP/38532		
10225292013	GP-6-4	ASTM D2974	MPRP/38533		
10225292015	GP-7-3	ASTM D2974	MPRP/38533		
10225292018	GP-8-3	ASTM D2974	MPRP/38533		
10225292020	GP-9-2	ASTM D2974	MPRP/38533		
10225292021	GP-10-7	ASTM D2974	MPRP/38533		
10225292022	GP-11-2	ASTM D2974	MPRP/38533		
10225292003	GP-1-16	EPA 3550	OEXT/21394	EPA 8270	MSSV/9183
10225292004	GP-2-8	EPA 3550	OEXT/21394	EPA 8270	MSSV/9183
10225292005	GP-3-8	EPA 3550	OEXT/21394	EPA 8270	MSSV/9183
10225292006	GP-3-4	EPA 3550	OEXT/21394	EPA 8270	MSSV/9183
10225292008	GP-4-2	EPA 3550	OEXT/21394	EPA 8270	MSSV/9183
10225292010	GP-5-2	EPA 3550	OEXT/21394	EPA 8270	MSSV/9183
10225292013	GP-6-4	EPA 3550	OEXT/21394	EPA 8270	MSSV/9183
10225292015	GP-7-3	EPA 3550	OEXT/21394	EPA 8270	MSSV/9183
10225292018	GP-8-3	EPA 3550	OEXT/21394	EPA 8270	MSSV/9183

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCES 123840
Pace Project No.: 10225292

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10225292020	GP-9-2	EPA 3550	OEXT/21394	EPA 8270	MSSV/9183
10225292021	GP-10-7	EPA 3550	OEXT/21394	EPA 8270	MSSV/9183
10225292022	GP-11-2	EPA 3550	OEXT/21394	EPA 8270	MSSV/9183
10225292002	GP-1-5W	EPA 3520	OEXT/21400	EPA 8270	MSSV/9182
10225292007	GP-3-9W	EPA 3520	OEXT/21400	EPA 8270	MSSV/9182
10225292009	GP-4-18W	EPA 3520	OEXT/21400	EPA 8270	MSSV/9182
10225292012	GP-5-14W	EPA 3520	OEXT/21400	EPA 8270	MSSV/9182
10225292019	GP-9-5W	EPA 3520	OEXT/21419	EPA 8270	MSSV/9187
10225292003	GP-1-16	EPA 5035/5030B	MSV/23366	EPA 8260	MSV/23368
10225292004	GP-2-8	EPA 5035/5030B	MSV/23366	EPA 8260	MSV/23368
10225292005	GP-3-8	EPA 5035/5030B	MSV/23366	EPA 8260	MSV/23368
10225292006	GP-3-4	EPA 5035/5030B	MSV/23366	EPA 8260	MSV/23368
10225292008	GP-4-2	EPA 5035/5030B	MSV/23366	EPA 8260	MSV/23368
10225292010	GP-5-2	EPA 5035/5030B	MSV/23382	EPA 8260	MSV/23383
10225292013	GP-6-4	EPA 5035/5030B	MSV/23382	EPA 8260	MSV/23383
10225292015	GP-7-3	EPA 5035/5030B	MSV/23382	EPA 8260	MSV/23383
10225292018	GP-8-3	EPA 5035/5030B	MSV/23382	EPA 8260	MSV/23383
10225292020	GP-9-2	EPA 5035/5030B	MSV/23382	EPA 8260	MSV/23383
10225292021	GP-10-7	EPA 5035/5030B	MSV/23382	EPA 8260	MSV/23383
10225292022	GP-11-2	EPA 5035/5030B	MSV/23382	EPA 8260	MSV/23383
10225292024	Trip Blank	EPA 5035/5030B	MSV/23382	EPA 8260	MSV/23383
10225292005	GP-3-8	EPA 8260	MSV/23424		
10225292002	GP-1-5W	EPA 8260	MSV/23434		
10225292007	GP-3-9W	EPA 8260	MSV/23405		
10225292009	GP-4-18W	EPA 8260	MSV/23405		
10225292012	GP-5-14W	EPA 8260	MSV/23405		
10225292019	GP-9-5W	EPA 8260	MSV/23440		
10225292025	Trip Blank	EPA 8260	MSV/23405		

Data File: \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180078.D Page 1
Report Date: 19-Apr-2013 11:20

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Data file : \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180078.D

Lab Smp Id: 10225292002

Inj Date : 19-APR-2013 07:58

Operator : MT Inst ID: 10gcsC.i

Smp Info : 10225292002

Misc Info : 11149

Comment : C10-C28 DRO

Method : \\192.168.10.12\chem\10gcsC.i\041813dro.b\WDROC-041213.m

Meth Date : 19-Apr-2013 09:59 jheinecke Quant Type: ESTD

Cal Date : 12-APR-2013 14:41 Cal File: 04120025.D

Als bottle: 40

Dil Factor: 1.00000

Integrator: HP Genie Compound Sublist: dro.sub

Target Version: 4.14

Processing Host: 10VOA3

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/L)
S 1 Diesel Range Organics	1.100	-6.380		122565964	259.271	0.259
\$ 2 n-Triacontane (S)	6.497	6.528	-0.031	11107513	38.6608	0.0387(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180078.D

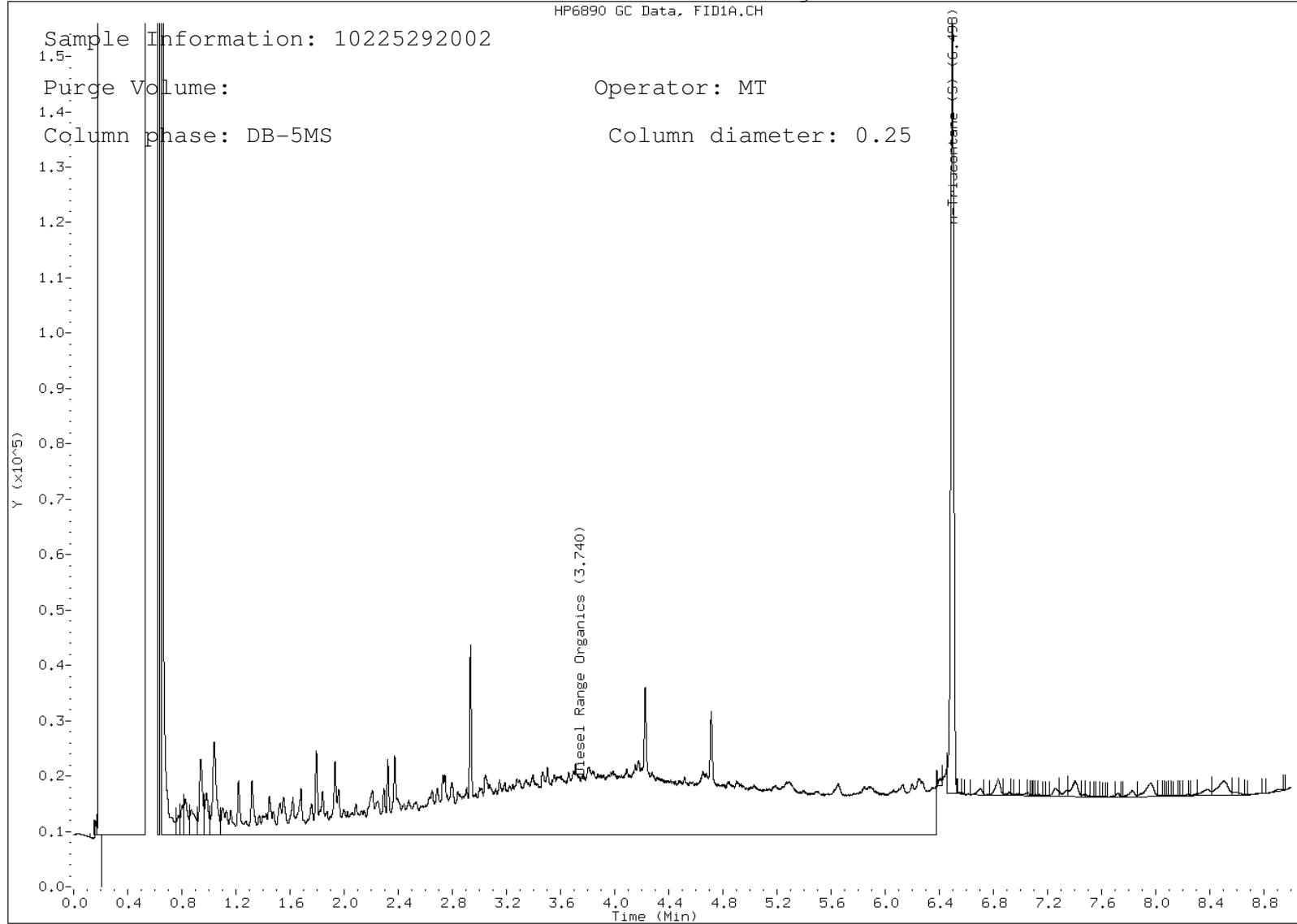
Report Date: 04/19/2013

Sample ID: 10225292002

Client ID:

Instrument: 10gcsC.i

HP6890 GC Data, FID1A.CH



Data File: \\192.168.10.12\chem\10gcv3.i\041813b-2.b\G1-10832.d Page 1
Report Date: 22-Apr-2013 12:57

Pace Analytical Services

Wisconsin GAS RANGE ORGANICS

Data file : \\192.168.10.12\chem\10gcv3.i\041813b-2.b\G1-10832.d
Lab Smp Id: 10225292002
Inj Date : 19-APR-2013 02:53
Operator : KT1 Inst ID: 10gcv3.i
Smp Info : 10225292002
Misc Info : 10614
Comment : Modified WIGRO
Method : \\192.168.10.12\chem\10gcv3.i\041813b-2.b\g313-wigro-108.m
Meth Date : 22-Apr-2013 12:57 10gcv3.i Quant Type: ESTD
Cal Date : 18-APR-2013 20:01 Cal File: G1-10811.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: SEMIVOLGCMS

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS						
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)	
	=====	=====	=====	=====	=====	=====	
S 5 GRO	2.200-13.750		595889	19.6966	19.70(a)		

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ) .

Data File: \\192.168.10.12\chem\10gcv3.i\041813b-2.b/G1-10832.d

Report Date: 04/22/2013

Sample ID: 10225292002

Client ID:

Instrument: 10gcv3.i

ANDI G1-10832.d

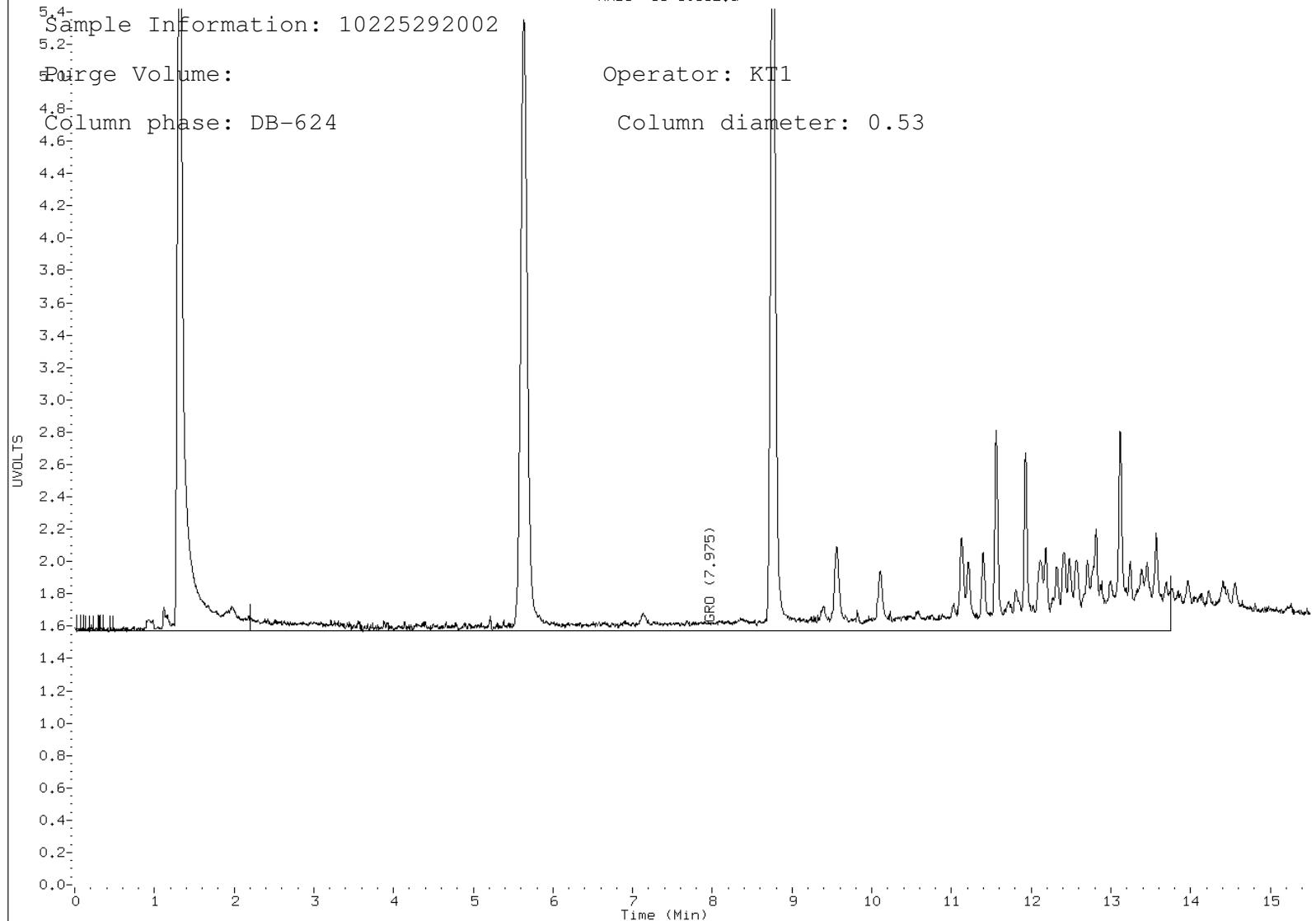
Sample Information: 10225292002

Purge Volume:

Column phase: DB-624

Operator: KT1

Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv3.i\041613a-2.b\G1-10623.d Page 1
Report Date: 17-Apr-2013 14:39

Pace Analytical Services

WIGRO GASOLINE RANGE ORGANICS

Data file : \\192.168.10.12\chem\10gcv3.i\041613a-2.b\G1-10623.d
Lab Smp Id: 10225292003
Inj Date : 16-APR-2013 19:46
Operator : KT1 Inst ID: 10gcv3.i
Smp Info : 10225292003
Misc Info : 10598
Comment : WIGRO GASOLINE RANGE ORGANICS
Method : \\192.168.10.12\chem\10gcv3.i\041613a-2.b\G313-GROsoil-101.m
Meth Date : 17-Apr-2013 14:38 10gcv3.i Quant Type: ESTD
Cal Date : 11-APR-2013 21:36 Cal File: G1-10124.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: SEMIVOLGCMS

Concentration Formula: Amt * DF * Uf * Vt / (Va * Ws * (100-M)/100) * CpndVariab

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	5.000	Unit correction factor
Vt	10.000	Total volume of methanol extract (mL)
Ws	10.000	Weight of the sample extracted (g)
M	0.00000	% Moisture
Va	100.000	Volume of the aliquot of methanol added(
Cpnd	Variable	Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(mg/Kg)
=====	=====	=====	=====	=====	=====	=====
S 5 GRO				Compound Not Detected.		

Data File: \\192.168.10.12\chem\10gcv3.i\041613a-2.b/G1-10623.d

Report Date: 04/17/2013

Sample ID: 10225292003

Client ID:

Instrument: 10gcv3.i

ANDI G1-10623.d

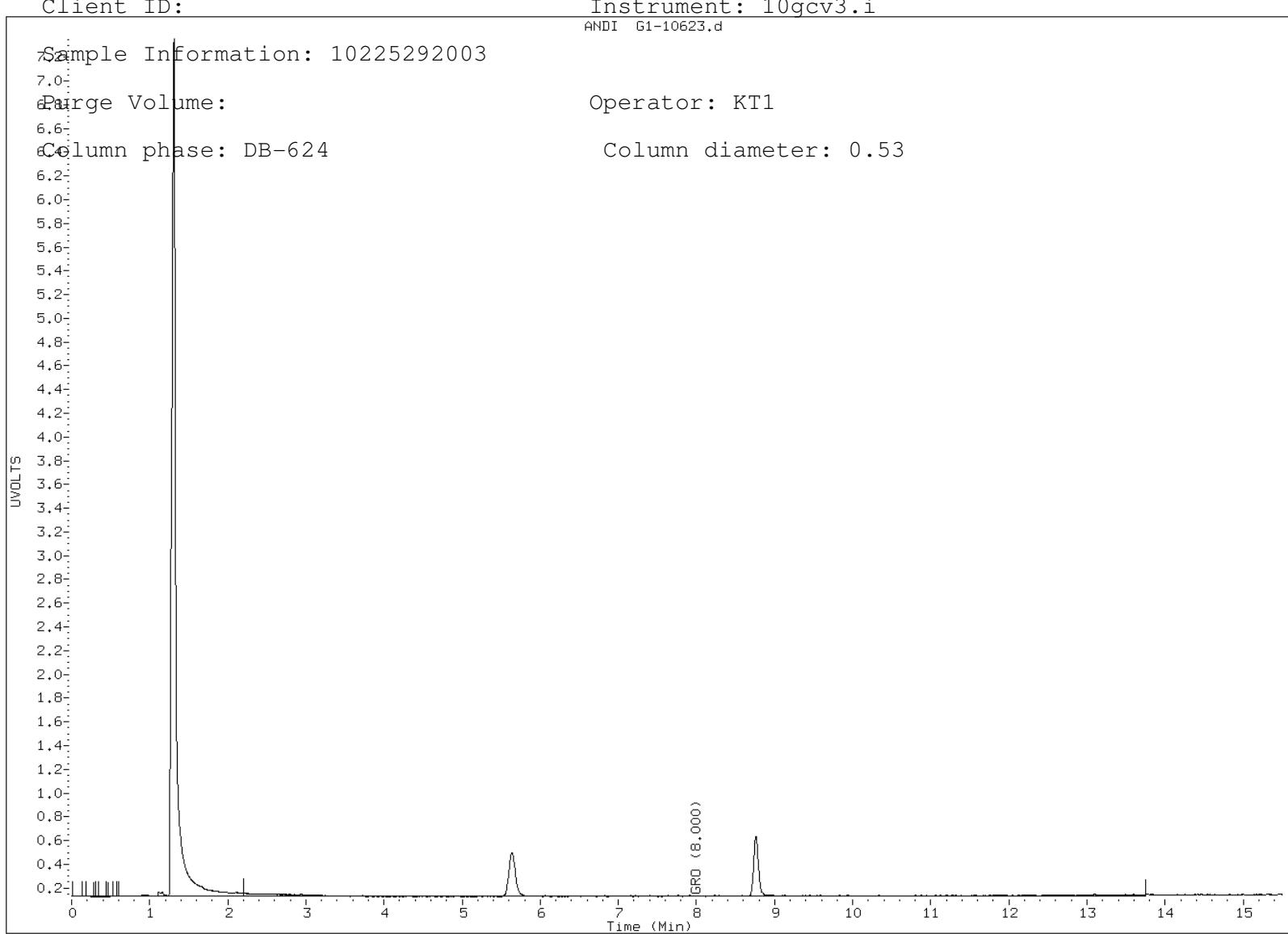
Sample Information: 10225292003

Purge Volume:

Operator: KT1

Column phase: DB-624

Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180105.D Page 1

Report Date: 19-Apr-2013 15:08

Pace Analytical Services

WI Dept of Nat. Resources- WIDRO

Data file : \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180105.D

Lab Smp Id: 10225292003

Inj Date : 19-APR-2013 14:23

Operator : JRH Inst ID: 10gcsC.i

Smp Info : 10225292003

Misc Info : 11144

Comment : C10-C28 DRO

Method : \\192.168.10.12\chem\10gcsC.i\041813dro.b\WDROC-041213.m

Meth Date : 19-Apr-2013 13:49 jheinecke Quant Type: ESTD

Cal Date : 12-APR-2013 14:41 Cal File: 04120025.D

Als bottle: 13

Dil Factor: 1.00000

Integrator: HP Genie Compound Sublist: dro.sub

Target Version: 4.14

Processing Host: 10VOA3

Concentration Formula: Amt * DF * Uf * Vt/(Ws * Vi*(100-M)/100) * CpndVariable

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	1.000	Volume of final extract (mL)
Ws	25.000	Weight of sample extracted (g)
Vi	1.000	Volume injected (uL)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

		RT	EXP RT	DLT RT	RESPONSE	(ug/mL) (mg/kg)
Compounds						
=====	=====	=====	=====	=====	=====	=====
S 1 Diesel Range Organics		1.100-6.380		27714000	26.2287	1.05
\$ 2 n-Triacontane (S)		6.461	6.492	-0.031	28391562	98.8197
						3.95(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180105.D

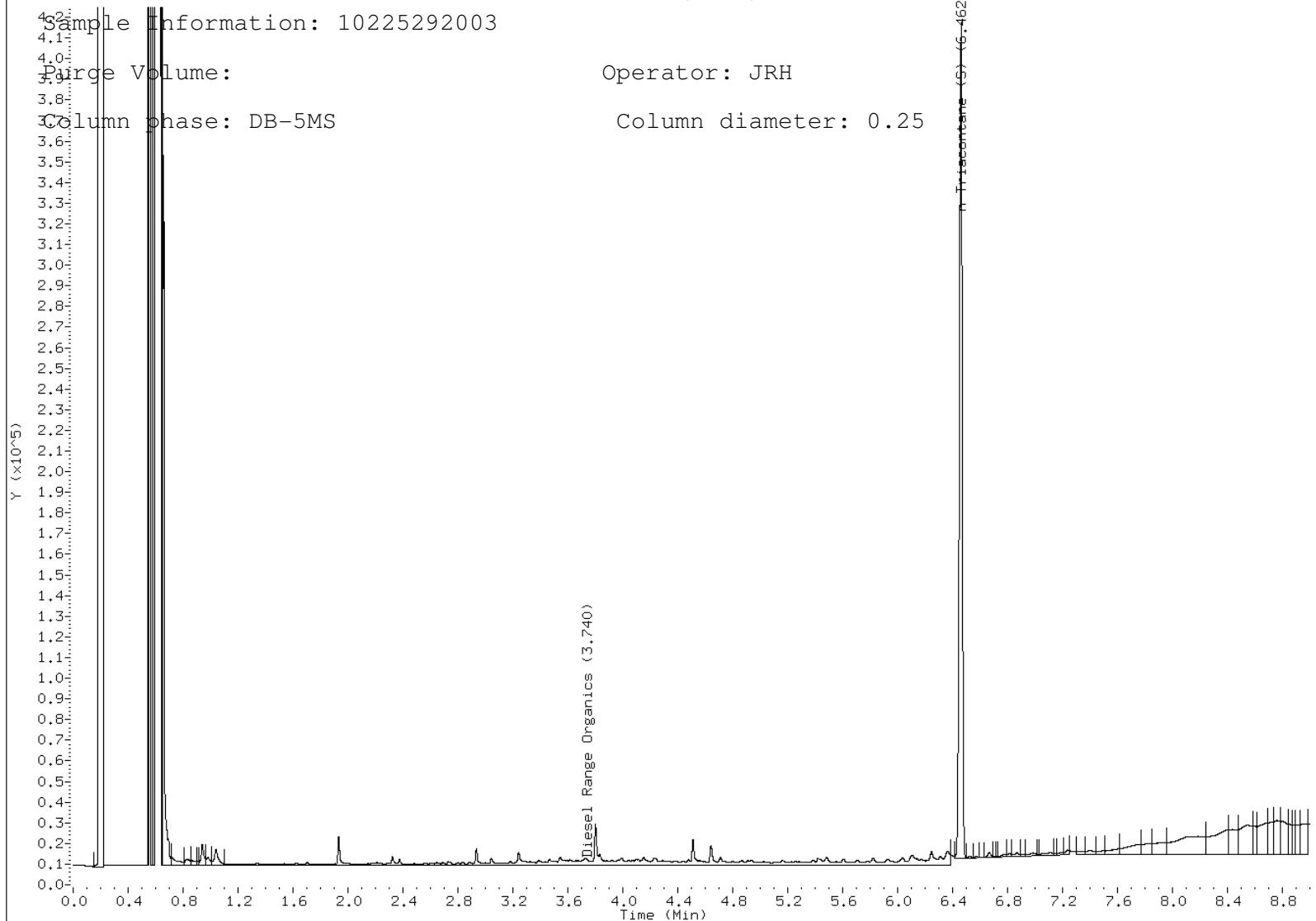
Report Date: 04/19/2013

Sample ID: 10225292003

Client ID:

Instrument: 10gcsC.i

HP6890 GC Data, FID1A.CH



Data File: \\192.168.10.12\chem\10gcv3.i\041613a-2.b\G1-10624.d Page 1
Report Date: 17-Apr-2013 14:39

Pace Analytical Services

WIGRO GASOLINE RANGE ORGANICS

Data file : \\192.168.10.12\chem\10gcv3.i\041613a-2.b\G1-10624.d
Lab Smp Id: 10225292004
Inj Date : 16-APR-2013 20:05
Operator : KT1 Inst ID: 10gcv3.i
Smp Info : 10225292004
Misc Info : 10598
Comment : WIGRO GASOLINE RANGE ORGANICS
Method : \\192.168.10.12\chem\10gcv3.i\041613a-2.b\G313-GROsoil-101.m
Meth Date : 17-Apr-2013 14:38 10gcv3.i Quant Type: ESTD
Cal Date : 11-APR-2013 21:36 Cal File: G1-10124.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: SEMIVOLGCMS

Concentration Formula: Amt * DF * Uf * Vt / (Va * Ws * (100-M)/100) * CpndVariab

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	5.000	Unit correction factor
Vt	10.000	Total volume of methanol extract (mL)
Ws	10.000	Weight of the sample extracted (g)
M	0.00000	% Moisture
Va	100.000	Volume of the aliquot of methanol added(
Cpnd	Variable	Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(mg/Kg)
=====	=====	=====	=====	=====	=====	=====
S 5 GRO	Compound Not Detected.					

Data File: \\192.168.10.12\chem\10gcv3.i\041613a-2.b/G1-10624.d

Report Date: 04/17/2013

Sample ID: 10225292004

Client ID:

Instrument: 10gcv3.i

ANDI G1-10624.d

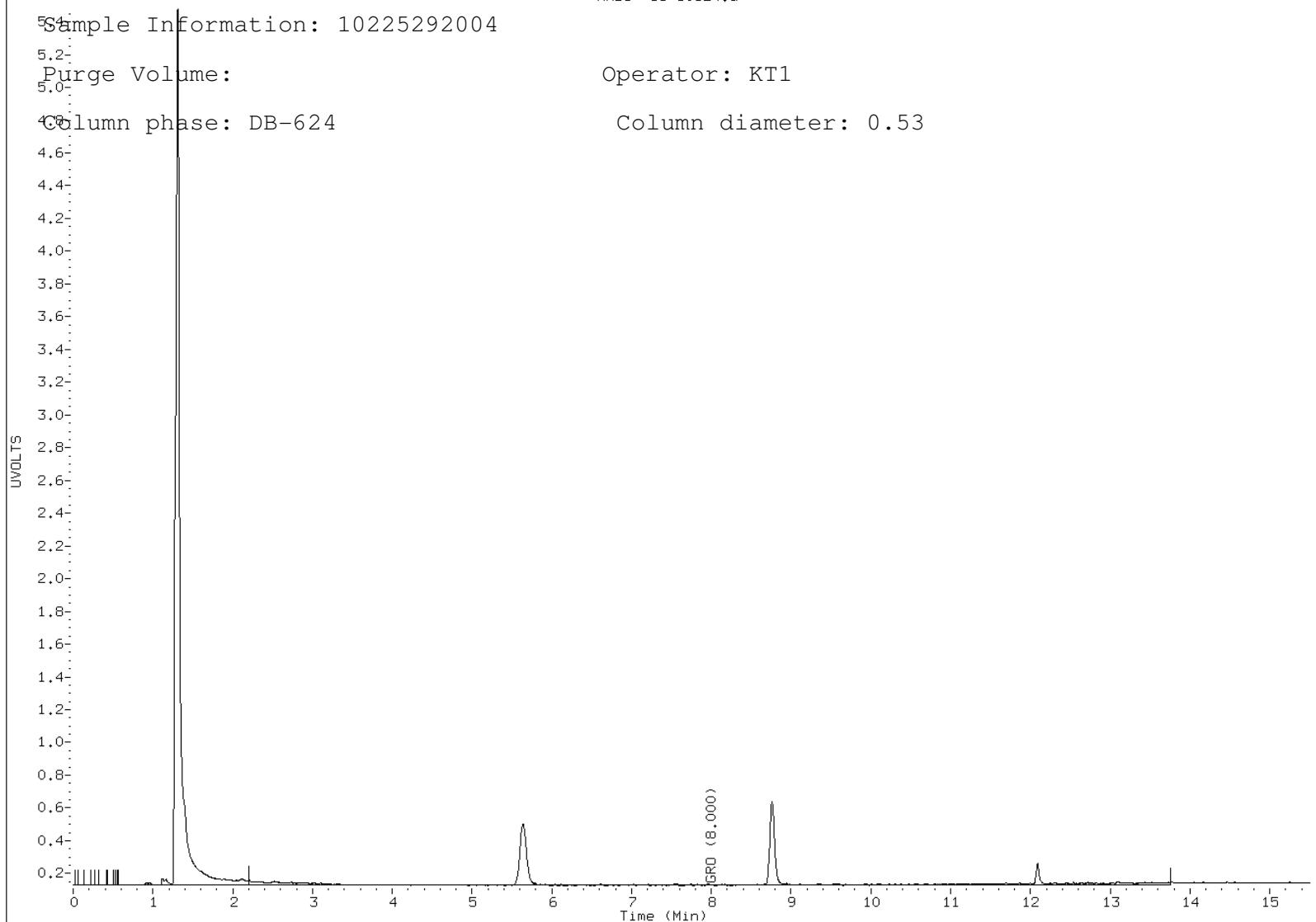
Sample Information: 10225292004

Purge Volume:

Operator: KT1

Column phase: DB-624

Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180120.D Page 1
Report Date: 20-Apr-2013 17:24

Pace Analytical Services

WI Dept of Nat. Resources- WIDRO

Data file : \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180120.D

Lab Smp Id: 10225292004

Inj Date : 19-APR-2013 17:50

Operator : JRH Inst ID: 10gcsC.i

Smp Info : 10225292004

Misc Info : 11144

Comment : C10-C28 DRO

Method : \\192.168.10.12\chem\10gcsC.i\041813dro.b\WDROC-041213.m

Meth Date : 20-Apr-2013 10:13 jheinecke Quant Type: ESTD

Cal Date : 12-APR-2013 14:41 Cal File: 04120025.D

Als bottle: 24

Dil Factor: 1.00000

Integrator: HP Genie Compound Sublist: dro.sub

Target Version: 4.14

Processing Host: 10VOA3

Concentration Formula: Amt * DF * Uf * Vt/(Ws * Vi*(100-M)/100) * CpndVariable

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	1.000	Volume of final extract (mL)
Ws	25.000	Weight of sample extracted (g)
Vi	1.000	Volume injected (uL)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

		RT	EXP RT	DLT RT	RESPONSE	(ug/mL) (mg/kg)
Compounds						
=====	=====	=====	=====	=====	=====	=====
S 1 Diesel Range Organics		1.100-6.300		383348880	899.989	36.0
\$ 2 n-Triacontane (S)		6.408	6.515	-0.107	22838512	79.4917
						3.18(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180120.D

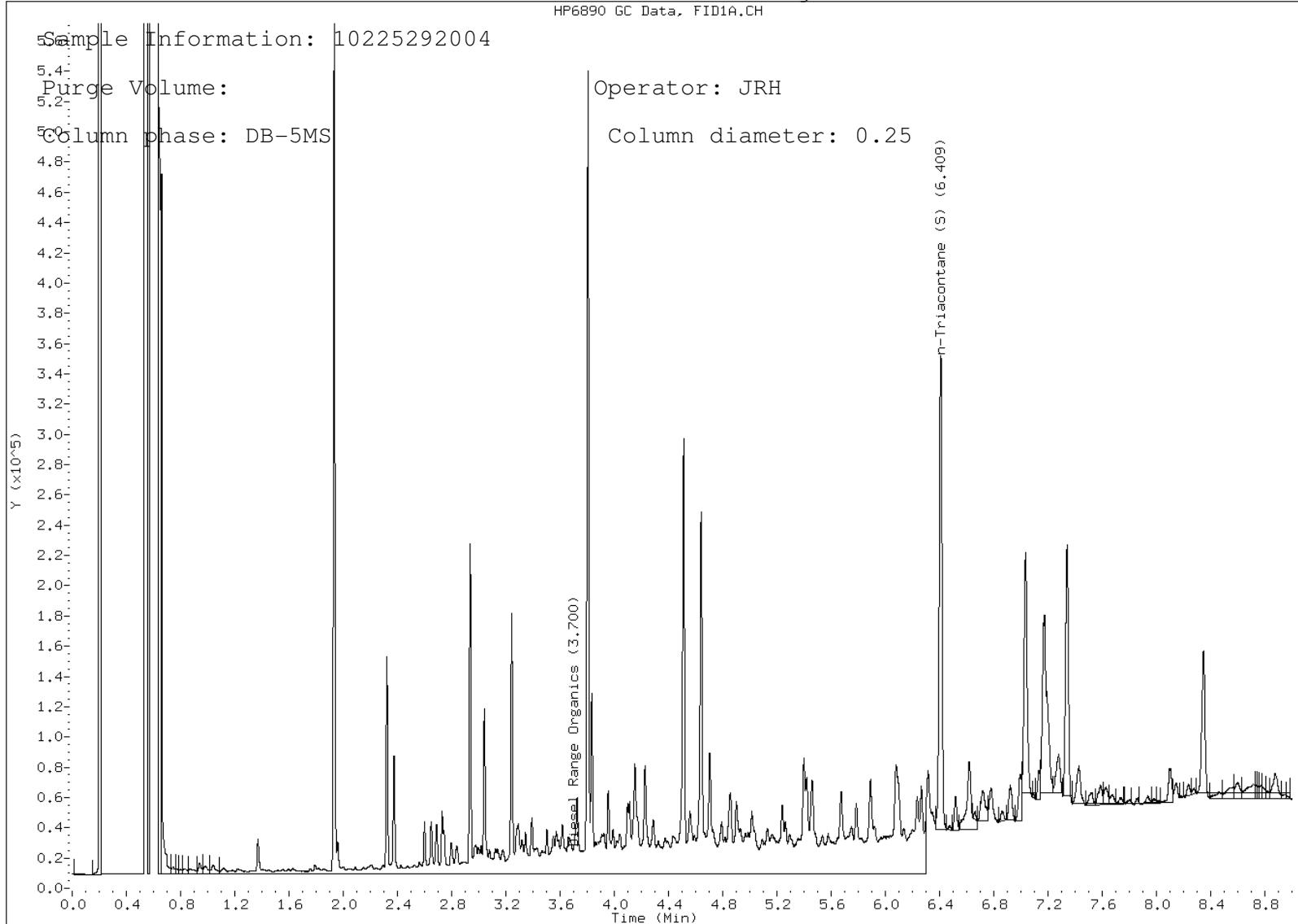
Report Date: 04/20/2013

Sample ID: 10225292004

Client ID:

Instrument: 10gcsC.i

HP6890 GC Data, FID1A.CH



Data File: \\192.168.10.12\chem\10gcv3.i\041713a-2.b\G1-10708.d Page 1
Report Date: 17-Apr-2013 15:04

Pace Analytical Services

WIGRO GASOLINE RANGE ORGANICS

Data file : \\192.168.10.12\chem\10gcv3.i\041713a-2.b\G1-10708.d
Lab Smp Id: 10225292005
Inj Date : 17-APR-2013 13:24
Operator : KT1 Inst ID: 10gcv3.i
Smp Info : 10225292005,25
Misc Info : 10598
Comment : WIGRO GASOLINE RANGE ORGANICS
Method : \\192.168.10.12\chem\10gcv3.i\041713a-2.b\G313-GROsoil-101.m
Meth Date : 17-Apr-2013 15:04 10gcv3.i Quant Type: ESTD
Cal Date : 11-APR-2013 21:36 Cal File: G1-10124.d
Als bottle: 1
Dil Factor: 25.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: SEMIVOLGCMS

Concentration Formula: Amt * DF * Uf * Vt / (Va * Ws * (100-M)/100) * CpndVariab

Name	Value	Description
------	-------	-------------

DF	25.000	Dilution Factor
Uf	5.000	Unit correction factor
Vt	10.000	Total volume of methanol extract (mL)
Ws	10.000	Weight of the sample extracted (g)
M	0.00000	% Moisture
Va	100.000	Volume of the aliquot of methanol added(
Cpnd	Variable	Local Compound Variable

CONCENTRATIONS

Compounds	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN	FINAL
					(ug/L)	(mg/Kg)
S 5 GRO	2.250-13.750			5242469	563.959	704.9

Data File: \\192.168.10.12\chem\10gcv3.i\041713a-2.b/G1-10708.d

Report Date: 04/17/2013

Sample ID: 10225292005

Client ID:

Instrument: 10gcv3.i

ANDI G1-10708.d

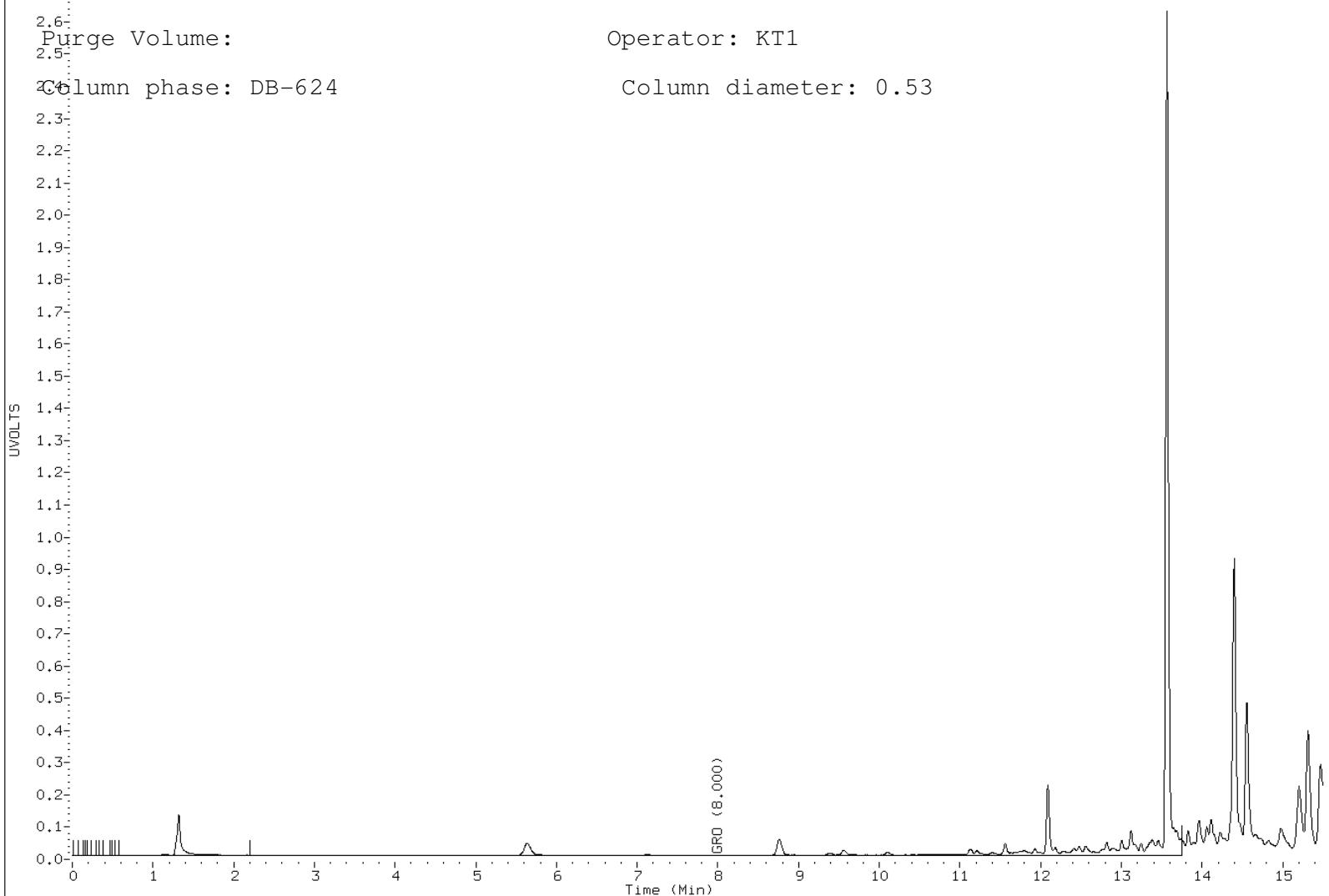
Sample Information: 10225292005,25

Purge Volume:

Operator: KT1

Column phase: DB-624

Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180126.D Page 1

Report Date: 20-Apr-2013 11:38

Pace Analytical Services

WI Dept of Nat. Resources- WIDRO

Data file : \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180126.D

Lab Smp Id: 10225292005

Inj Date : 19-APR-2013 19:12

Operator : JRH Inst ID: 10gcsC.i

Smp Info : 10225292005,50

Misc Info : 11144

Comment : C10-C28 DRO

Method : \\192.168.10.12\chem\10gcsC.i\041813dro.b\WDROC-041213.m

Meth Date : 20-Apr-2013 10:13 jheinecke Quant Type: ESTD

Cal Date : 12-APR-2013 14:41 Cal File: 04120025.D

Als bottle: 39

Dil Factor: 50.00000

Integrator: HP Genie Compound Sublist: dro.sub

Target Version: 4.14

Processing Host: 10VOA3

Concentration Formula: Amt * DF * Uf * Vt/(Ws * Vi*(100-M)/100) * CpndVariable

Name	Value	Description
------	-------	-------------

DF	50.000	Dilution Factor
Uf	1.000	Correction factor
Vt	1.000	Volume of final extract (mL)
Ws	25.000	Weight of sample extracted (g)
Vi	1.000	Volume injected (uL)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/kg)
S 1 Diesel Range Organics	1.100	-6.300		881317394	2123.45	4250
\$ 2 n-Triacontane (S)				Compound Not Detected.		

Data File: \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180126.D

Report Date: 04/20/2013

Sample ID: 10225292005

Client ID:

Instrument: 10gcsC.i

HP6890 GC Data, FID1A.CH

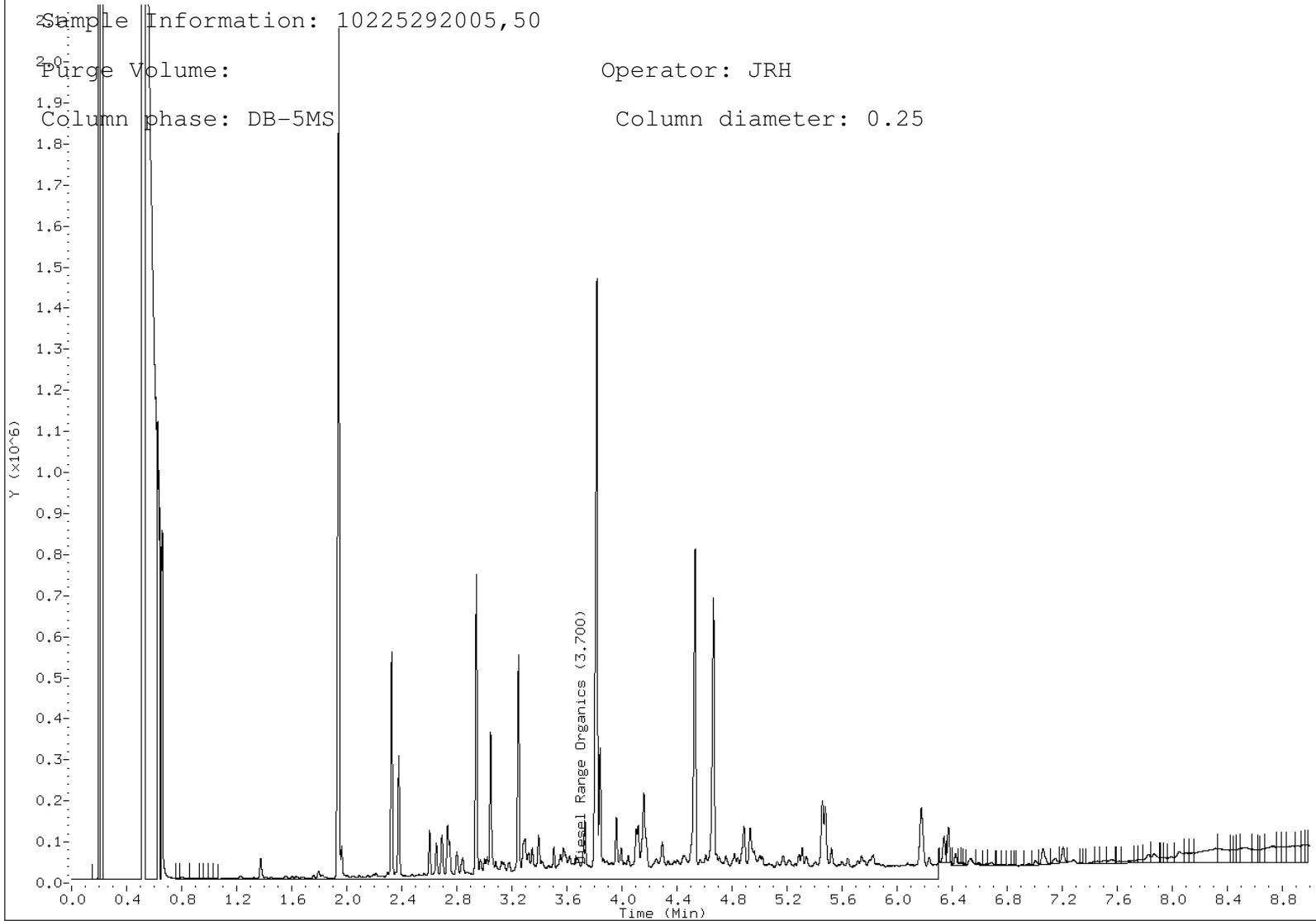
Sample Information: 10225292005,50

Purge Volume:

Operator: JRH

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180122.D Page 1

Report Date: 20-Apr-2013 11:36

Pace Analytical Services

WI Dept of Nat. Resources- WIDRO

Data file : \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180122.D

Lab Smp Id: 10225292006

Inj Date : 19-APR-2013 18:17

Operator : JRH Inst ID: 10gcsC.i

Smp Info : 10225292006,20

Misc Info : 11144

Comment : C10-C28 DRO

Method : \\192.168.10.12\chem\10gcsC.i\041813dro.b\WDROC-041213.m

Meth Date : 20-Apr-2013 10:13 jheinecke Quant Type: ESTD

Cal Date : 12-APR-2013 14:41 Cal File: 04120025.D

Als bottle: 26

Dil Factor: 20.00000

Integrator: HP Genie Compound Sublist: dro.sub

Target Version: 4.14

Processing Host: 10VOA3

Concentration Formula: Amt * DF * Uf * Vt/(Ws * Vi*(100-M)/100) * CpndVariable

Name	Value	Description
------	-------	-------------

DF	20.000	Dilution Factor
Uf	1.000	Correction factor
Vt	1.000	Volume of final extract (mL)
Ws	25.000	Weight of sample extracted (g)
Vi	1.000	Volume injected (uL)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/kg)
S 1 Diesel Range Organics	1.100	-6.300		289573422	669.592	536
\$ 2 n-Triacontane (S)				Compound Not Detected.		

Data File: \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180122.D

Report Date: 04/20/2013

Sample ID: 10225292006

Client ID:

Instrument: 10gcsC.i

HP6890 GC Data, FID1A.CH

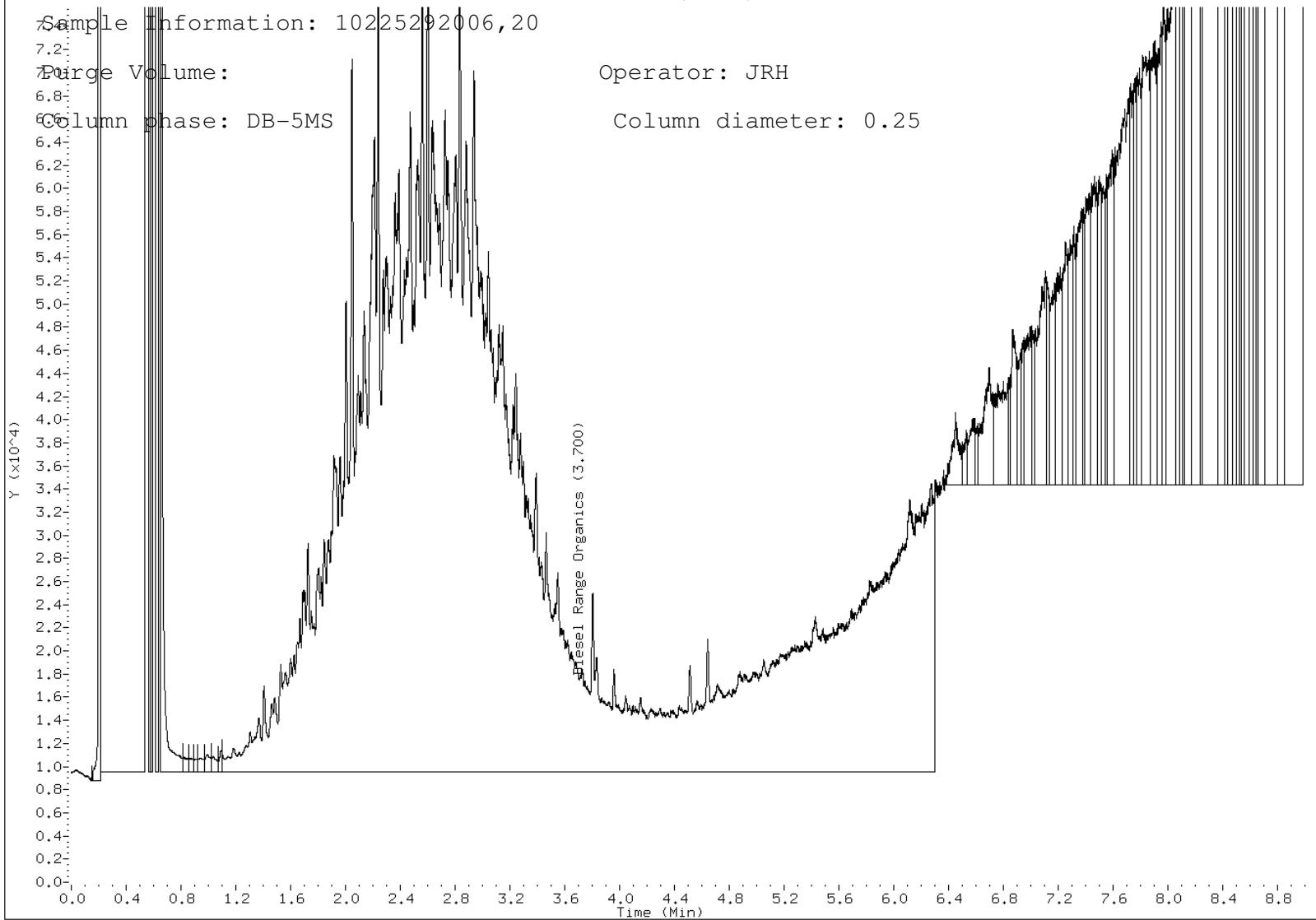
Sample Information: 10225292006, 20

Purge Volume:

Operator: JRH

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\192.168.10.12\chem\10gcv3.i\041613a-2.b\G1-10625.d Page 1
Report Date: 17-Apr-2013 14:39

Pace Analytical Services

WIGRO GASOLINE RANGE ORGANICS

Data file : \\192.168.10.12\chem\10gcv3.i\041613a-2.b\G1-10625.d
Lab Smp Id: 10225292006
Inj Date : 16-APR-2013 20:25
Operator : KT1 Inst ID: 10gcv3.i
Smp Info : 10225292006
Misc Info : 10598
Comment : WIGRO GASOLINE RANGE ORGANICS
Method : \\192.168.10.12\chem\10gcv3.i\041613a-2.b\G313-GROsoil-101.m
Meth Date : 17-Apr-2013 14:38 10gcv3.i Quant Type: ESTD
Cal Date : 11-APR-2013 21:36 Cal File: G1-10124.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: SEMIVOLGCMS

Concentration Formula: Amt * DF * Uf * Vt / (Va * Ws * (100-M)/100) * CpndVariab

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	5.000	Unit correction factor
Vt	10.000	Total volume of methanol extract (mL)
Ws	10.000	Weight of the sample extracted (g)
M	0.00000	% Moisture
Va	100.000	Volume of the aliquot of methanol added(
Cpnd	Variable	Local Compound Variable

CONCENTRATIONS

Compounds	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN	FINAL
					(ug/L)	(mg/Kg)
=====	=====	=====	=====	=====	=====	=====
S 5 GRO	2.250-13.750		12352828	1413.49	70.67	

Data File: \\192.168.10.12\chem\10gcv3.i\041613a-2.b/G1-10625.d

Report Date: 04/17/2013

Sample ID: 10225292006

Client ID:

Instrument: 10gcv3.i

ANDI G1-10625.d

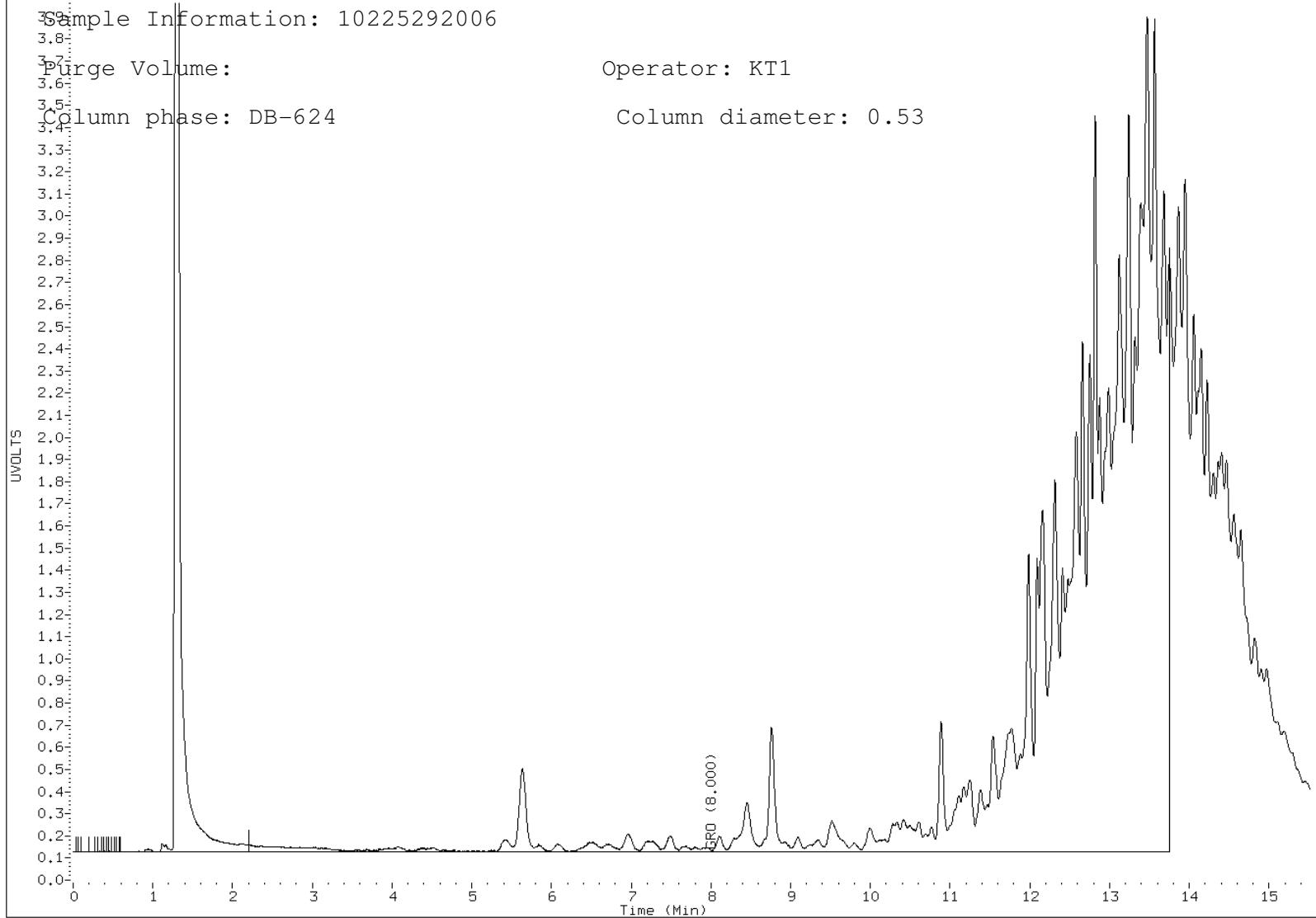
Sample Information: 10225292006

Purge Volume:

Operator: KT1

Column phase: DB-624

Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180089.D Page 1
Report Date: 19-Apr-2013 11:34

Pace Analytical Services

WI Dept of Nat. Resources- WIDRO

Data file : \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180089.D

Lab Smp Id: 10225292007

Inj Date : 19-APR-2013 10:32

Operator : JRH Inst ID: 10gcsC.i

Smp Info : 10225292007,5

Misc Info : 11149

Comment : C10-C28 DRO

Method : \\192.168.10.12\chem\10gcsC.i\041813dro.b\WDROC-041213.m

Meth Date : 19-Apr-2013 11:32 jheinecke Quant Type: ESTD

Cal Date : 12-APR-2013 14:41 Cal File: 04120025.D

Als bottle: 41

Dil Factor: 5.00000

Integrator: HP Genie Compound Sublist: dro.sub

Target Version: 4.14

Processing Host: 10VOA3

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
------	-------	-------------

DF	5.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/L)
S 1 Diesel Range Organics	1.100-6.380			715561812	1716.20	8.58
\$ 2 n-Triacontane (S)	6.536	6.528	0.008	2434156	8.47232	0.0424(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180089.D

Report Date: 04/19/2013

Sample ID: 10225292007

Client ID:

Instrument: 10gcsC.i

HP6890 GC Data, FID1A.CH

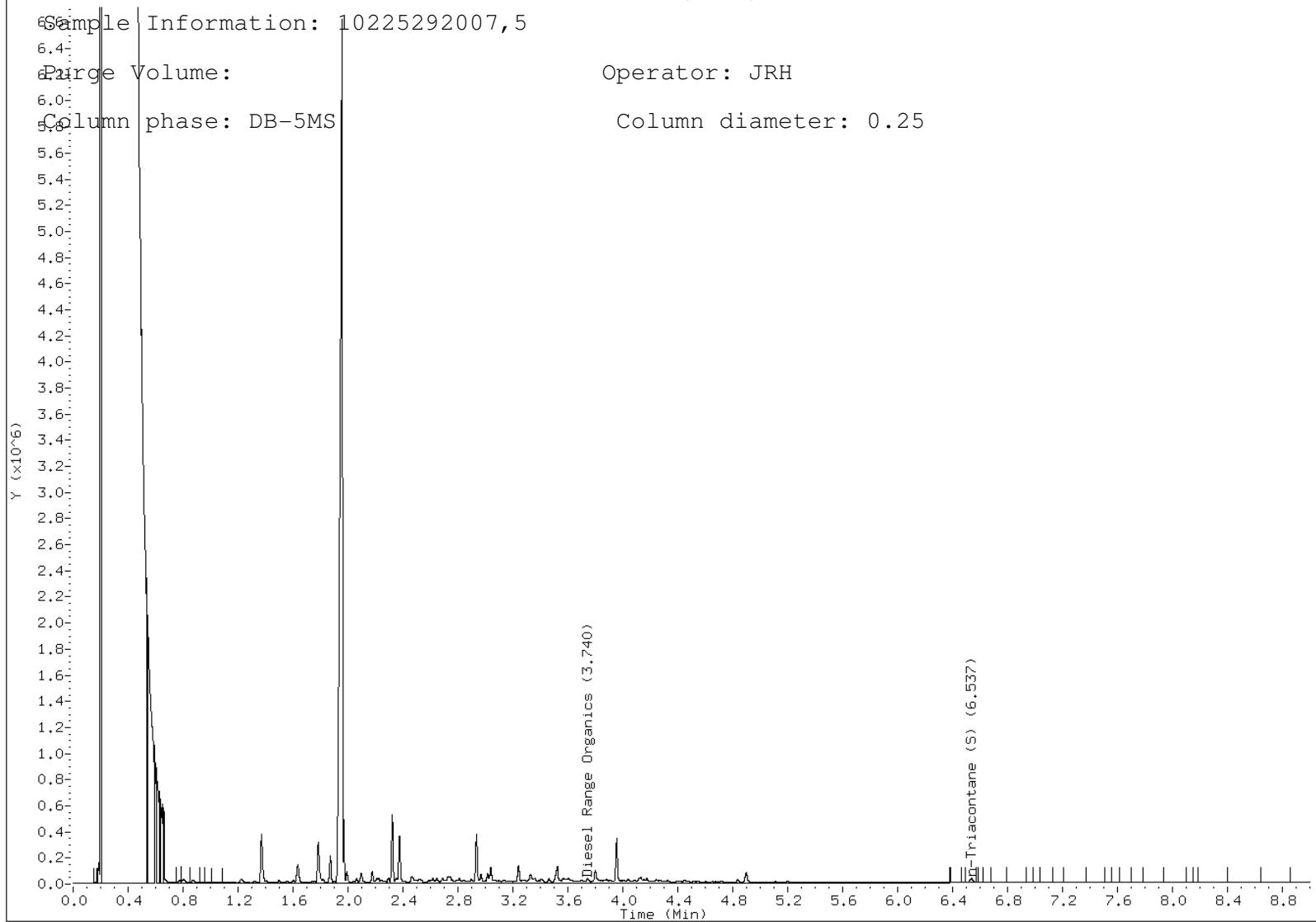
Sample Information: 10225292007,5

Purge Volume:

Operator: JRH

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\192.168.10.12\chem\10gcv3.i\041813b-2.b\G1-10840.d Page 1
Report Date: 22-Apr-2013 12:57

Pace Analytical Services

Wisconsin GAS RANGE ORGANICS

Data file : \\192.168.10.12\chem\10gcv3.i\041813b-2.b\G1-10840.d
Lab Smp Id: 10225292007
Inj Date : 19-APR-2013 05:29
Operator : KT1 Inst ID: 10gcv3.i
Smp Info : 10225292007,5
Misc Info : 10614
Comment : Modified WIGRO
Method : \\192.168.10.12\chem\10gcv3.i\041813b-2.b\g313-wigro-108.m
Meth Date : 22-Apr-2013 12:57 10gcv3.i Quant Type: ESTD
Cal Date : 18-APR-2013 20:01 Cal File: G1-10811.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: SEMIVOLGCMS

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
S 5 GRO	2.200-13.750			3840338	432.942	2165

Data File: \\192.168.10.12\chem\10gcv3.i\041813b-2.b/G1-10840.d

Report Date: 04/22/2013

Sample ID: 10225292007

Client ID:

Instrument: 10gcv3.i

ANDI G1-10840.d

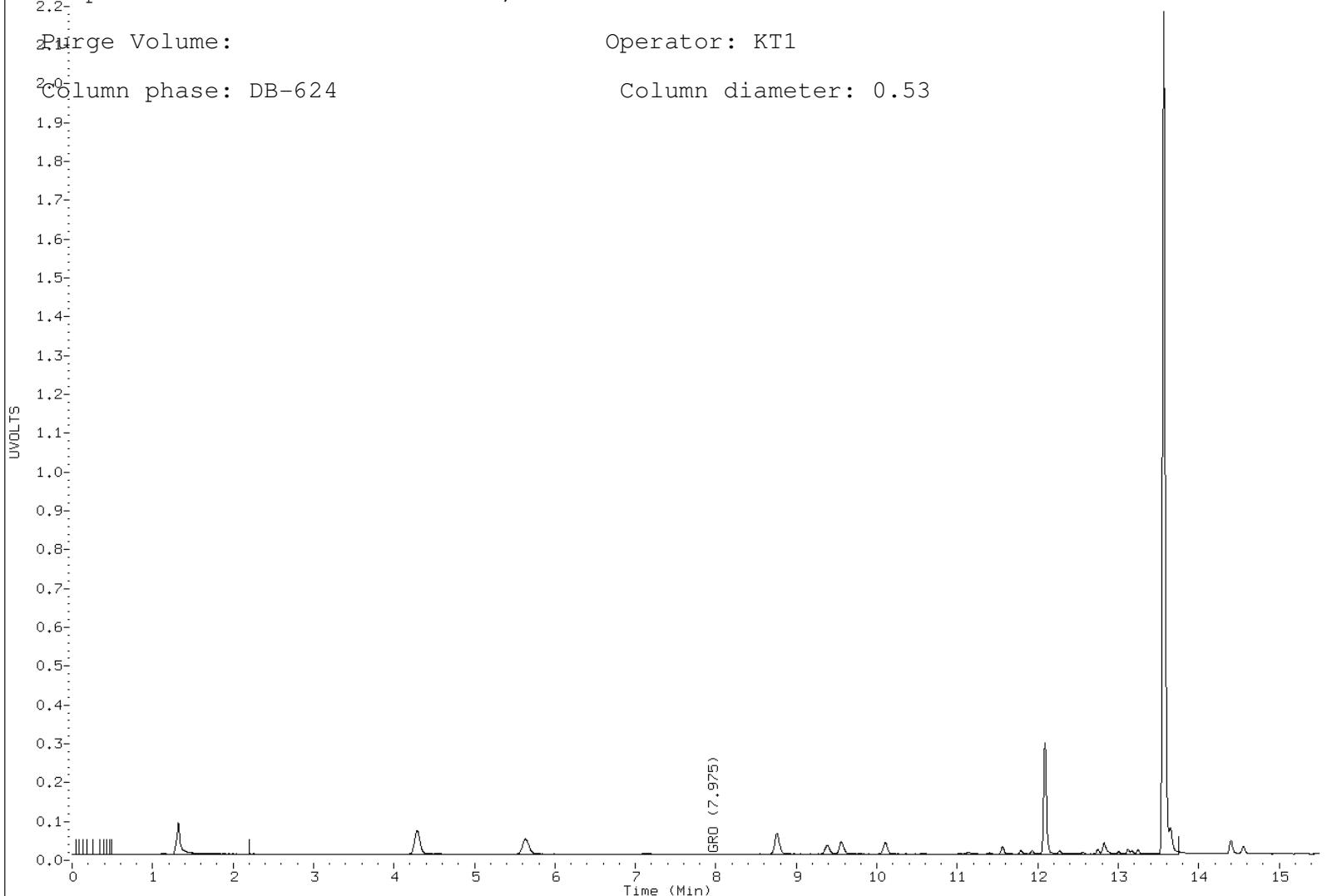
Sample Information: 10225292007,5

Purge Volume:

Operator: KT1

Column phase: DB-624

Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv3.i\041613a-2.b\G1-10626.d Page 1
Report Date: 17-Apr-2013 14:39

Pace Analytical Services

WIGRO GASOLINE RANGE ORGANICS

Data file : \\192.168.10.12\chem\10gcv3.i\041613a-2.b\G1-10626.d
Lab Smp Id: 10225292008
Inj Date : 16-APR-2013 20:45
Operator : KT1 Inst ID: 10gcv3.i
Smp Info : 10225292008
Misc Info : 10598
Comment : WIGRO GASOLINE RANGE ORGANICS
Method : \\192.168.10.12\chem\10gcv3.i\041613a-2.b\G313-GROsoil-101.m
Meth Date : 17-Apr-2013 14:38 10gcv3.i Quant Type: ESTD
Cal Date : 11-APR-2013 21:36 Cal File: G1-10124.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: SEMIVOLGCMS

Concentration Formula: Amt * DF * Uf * Vt / (Va * Ws * (100-M)/100) * CpndVariab

Name	Value	Description
------	-------	-------------

DF 1.000 Dilution Factor
 UF 5.000 Unit correction factor
 VT 10.000 Total volume of methanol extract (mL)
 WS 10.000 Weight of the sample extracted (g)
 M 0.00000 % Moisture
 VA 100.000 Volume of the aliquot of methanol added (mL)
 Cpnd Variable Local Compound Variable

CONCENTRATIONS

Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	FINAL (mg/Kg)
=====	=====	=====	=====	=====	=====	=====
S 5 GRO	2.250	-13.750		984383	55.2145	2.761

Data File: \\192.168.10.12\chem\10gcv3.i\041613a-2.b/G1-10626.d

Report Date: 04/17/2013

Sample ID: 10225292008

Client ID:

Instrument: 10gcv3.i

ANDI G1-10626.d

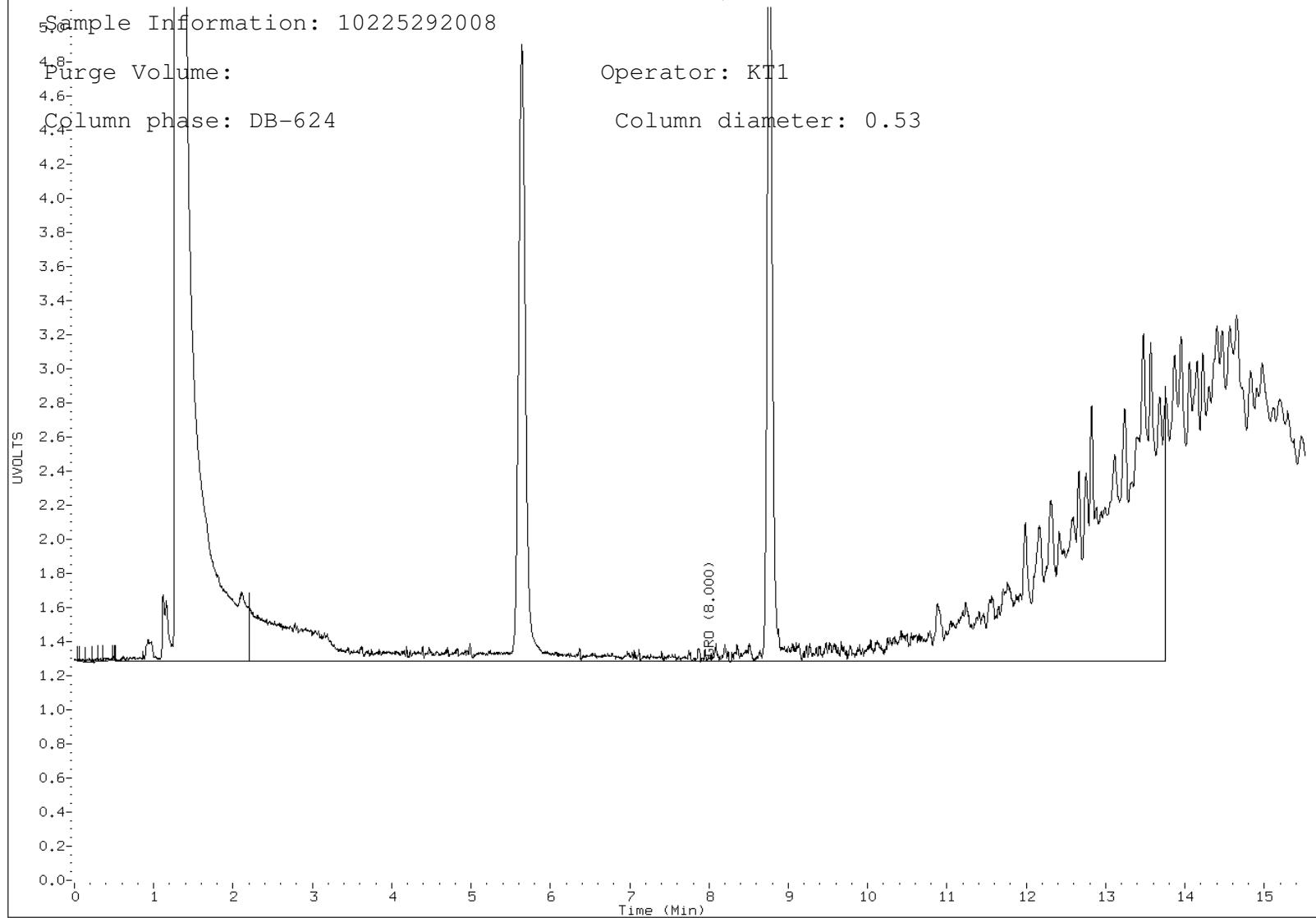
Sample Information: 10225292008

Purge Volume:

Column phase: DB-624

Operator: KT1

Column diameter: 0.53



Data File: 042113000023.D

Page 1

Report Date: 21-Apr-2013 15:56

Pace Analytical Services

WI Dept of Nat. Resources- WIDRO

Data file : \\192.168.10.12\chem\10gcs9.i\042113dro.b\042113000023.D

Lab Smp Id: 10225292008

Inj Date : 21-APR-2013 15:21

Operator : JRH Inst ID: 10gcs9.i

Smp Info : 10225292008

Misc Info : 11166

Comment : C10-C28 DRO

Method : \\192.168.10.12\chem\10gcs9.i\042113dro.b\WDRO9-032213.m

Meth Date : 21-Apr-2013 15:43 jheinecke Quant Type: ESTD

Cal Date : 22-MAR-2013 15:41 Cal File: 032213000030.D

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie Compound Sublist: dro.sub

Target Version: 4.14

Processing Host: 10VOA3

Concentration Formula: Amt * DF * Uf * Vt/(Ws * Vi*(100-M)/100) * CpndVariable

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	1.000	Volume of final extract (mL)
Ws	25.000	Weight of sample extracted (g)
Vi	1.000	Volume injected (uL)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/kg)
=====	====	=====	=====	=====	=====	=====
S 1 Diesel Range Organics	0.860-2.109			201893774	643.324	25.7
\$ 2 n-Triacontane (S)	2.186	2.179	0.007	24857774	99.1048	3.96 (aM)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10gcs9.i\042113dro.b\042113000023.D

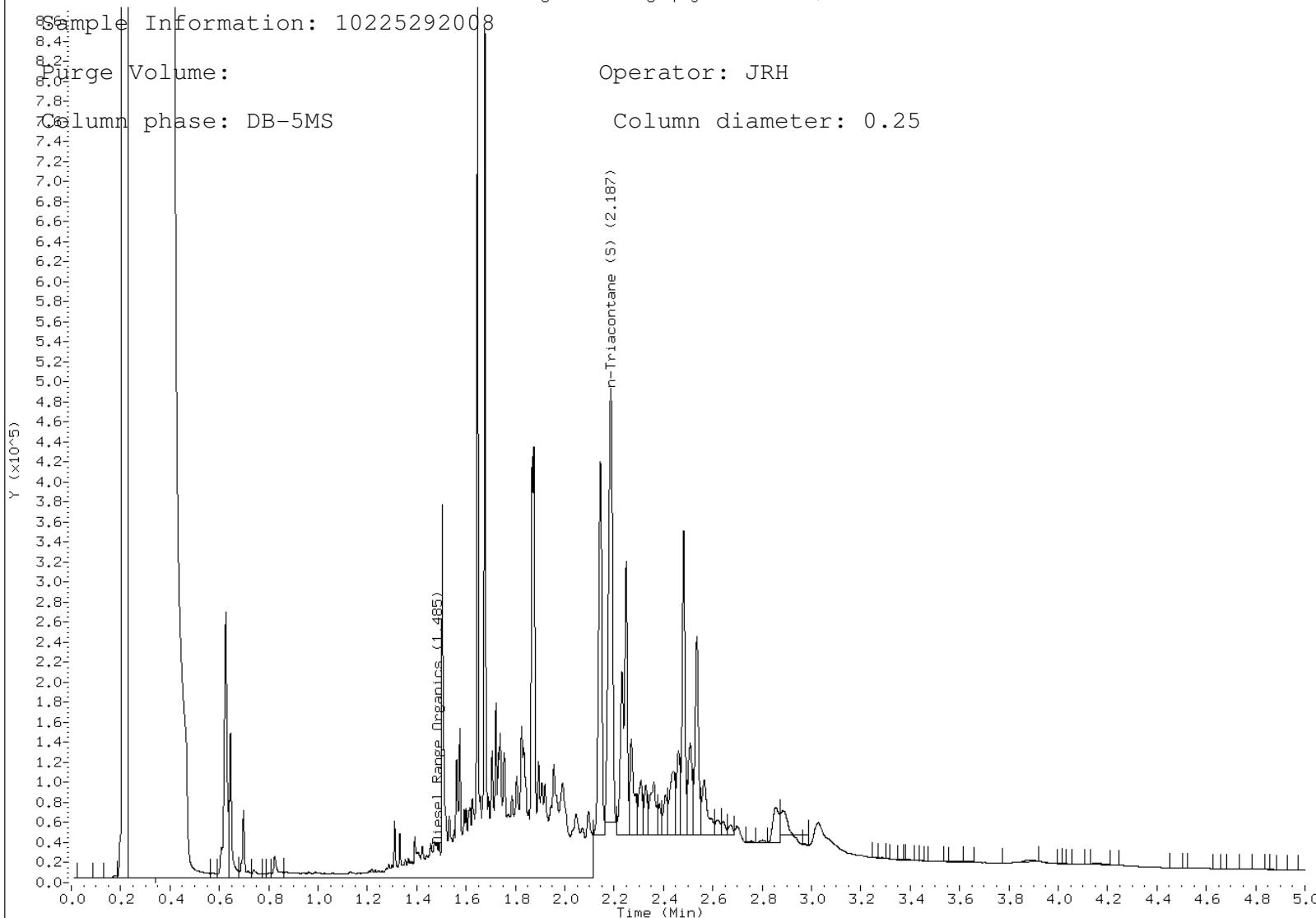
Report Date: 04/21/2013

Sample ID: 10225292008

Client ID:

Instrument: 10gcs9.i

ANDI gas chromatography 042113000023.D



Data File: \\192.168.10.12\chem\10gcv3.i\041813b-2.b\G1-10826.d Page 1
Report Date: 22-Apr-2013 12:57

Pace Analytical Services

Wisconsin GAS RANGE ORGANICS

Data file : \\192.168.10.12\chem\10gcv3.i\041813b-2.b\G1-10826.d
Lab Smp Id: 10225292009
Inj Date : 19-APR-2013 00:55
Operator : KT1 Inst ID: 10gcv3.i
Smp Info : 10225292009
Misc Info : 10614
Comment : Modified WIGRO
Method : \\192.168.10.12\chem\10gcv3.i\041813b-2.b\g313-wigro-108.m
Meth Date : 22-Apr-2013 12:57 10gcv3.i Quant Type: ESTD
Cal Date : 18-APR-2013 20:01 Cal File: G1-10811.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: SEMIVOLGCMS

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds RT EXP RT DLT RT RESPONSE (ug/L) (ug/L)

===== ===== ===== ===== ===== =====

S 5 GRO Compound Not Detected.

Data File: \\192.168.10.12\chem\10gcv3.i\041813b-2.b/G1-10826.d

Report Date: 04/22/2013

Sample ID: 10225292009

Client ID:

Instrument: 10gcv3.i

ANDI G1-10826.d

1. Sample Information: 10225292009

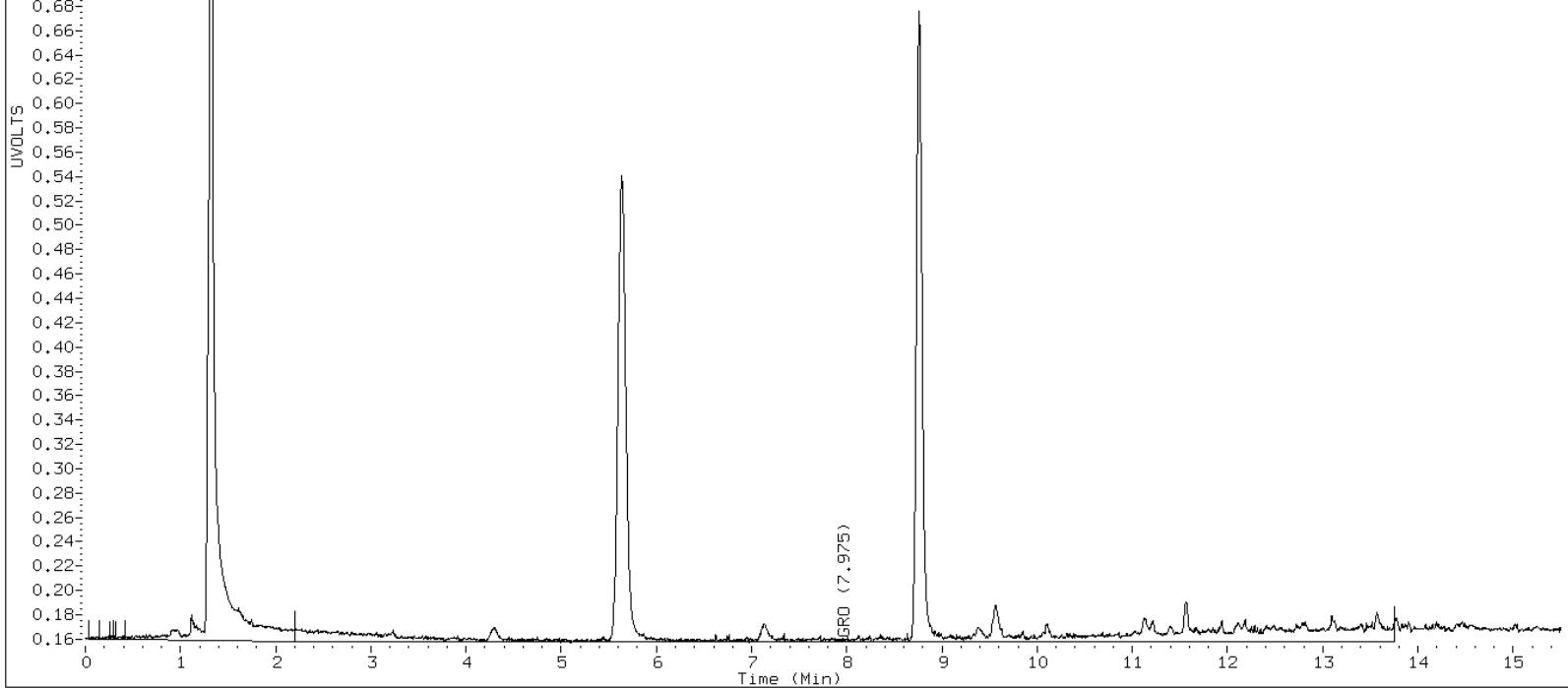
0.98
0.96
0.94
0.92
0.90
0.88
0.86
0.84
0.82
0.80
0.78
0.76
0.74
0.72
0.70
0.68
0.66
0.64
0.62
0.60
0.58
0.56
0.54
0.52
0.50
0.48
0.46
0.44
0.42
0.40
0.38
0.36
0.34
0.32
0.30
0.28
0.26
0.24
0.22
0.20
0.18
0.16

Purge Volume:

Operator: KT1

Column phase: DB-624

Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180080.D Page 1
Report Date: 19-Apr-2013 10:18

Pace Analytical Services

WI Dept of Nat. Resources- WIDRO

Data file : \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180080.D

Lab Smp Id: 10225292009

Inj Date : 19-APR-2013 08:25

Operator : MT Inst ID: 10gcsC.i

Smp Info : 10225292009

Misc Info : 11149

Comment : C10-C28 DRO

Method : \\192.168.10.12\chem\10gcsC.i\041813dro.b\WDROC-041213.m

Meth Date : 19-Apr-2013 09:59 jheinecke Quant Type: ESTD

Cal Date : 12-APR-2013 14:41 Cal File: 04120025.D

Als bottle: 42

Dil Factor: 1.00000

Integrator: HP Genie Compound Sublist: dro.sub

Target Version: 4.14

Processing Host: 10VOA3

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/L)
S 1 Diesel Range Organics	1.100	-6.380		81962857	159.513	0.160
\$ 2 n-Triacontane (S)	6.493	6.528	-0.035	10973663	38.1949	0.0382(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180080.D

Report Date: 04/19/2013

Sample ID: 10225292009

Client ID:

Instrument: 10gcsC.i

HP6890 GC Data, FID1A.CH

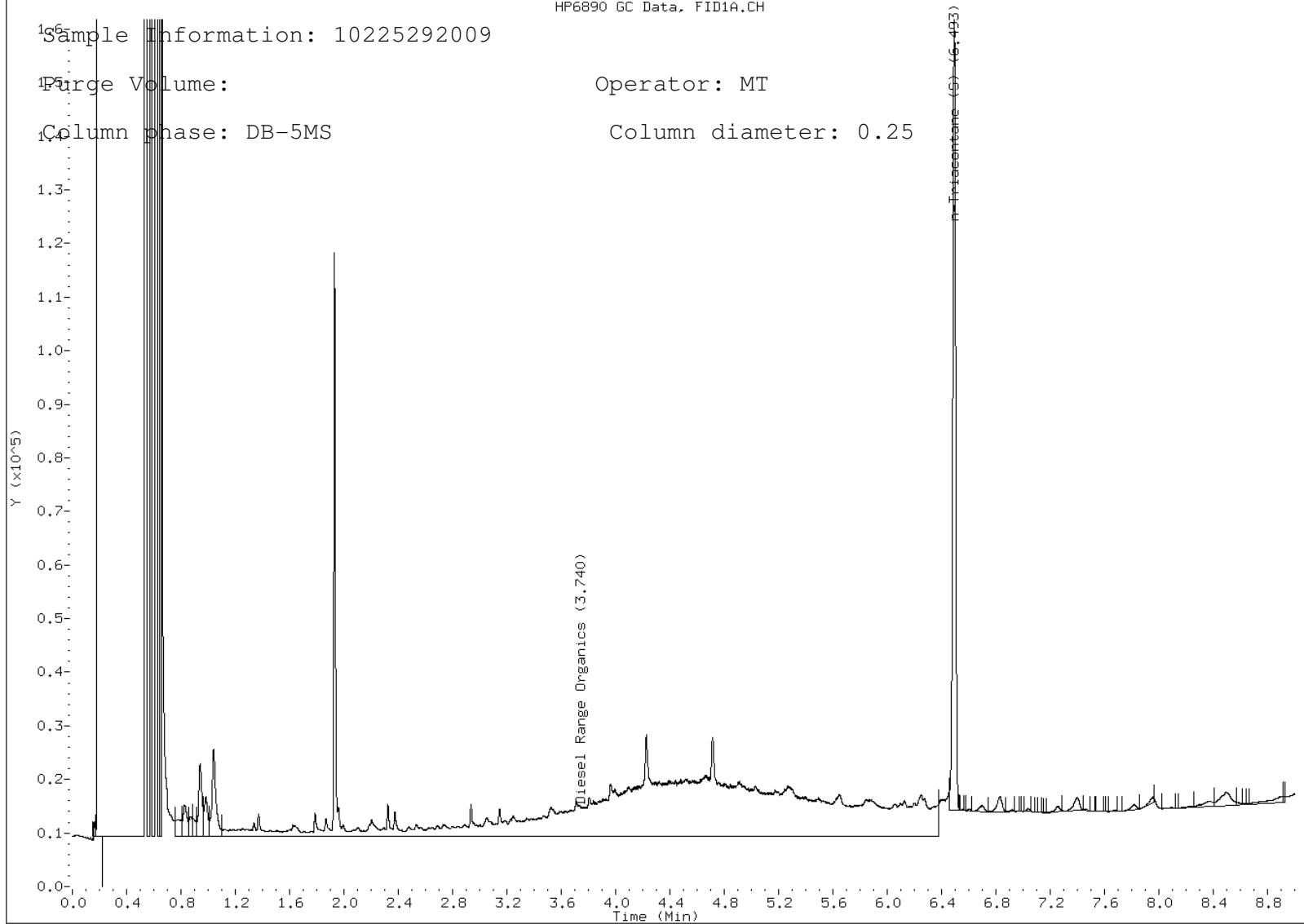
Sample Information: 10225292009

Purge Volume:

Operator: MT

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\192.168.10.12\chem\10gcv3.i\041613a-2.b\G1-10627.d Page 1
Report Date: 17-Apr-2013 14:39

Pace Analytical Services

WIGRO GASOLINE RANGE ORGANICS

Data file : \\192.168.10.12\chem\10gcv3.i\041613a-2.b\G1-10627.d
Lab Smp Id: 10225292010
Inj Date : 16-APR-2013 21:04
Operator : KT1 Inst ID: 10gcv3.i
Smp Info : 10225292010
Misc Info : 10598
Comment : WIGRO GASOLINE RANGE ORGANICS
Method : \\192.168.10.12\chem\10gcv3.i\041613a-2.b\G313-GROsoil-101.m
Meth Date : 17-Apr-2013 14:38 10gcv3.i Quant Type: ESTD
Cal Date : 11-APR-2013 21:36 Cal File: G1-10124.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: SEMIVOLGCMS

Concentration Formula: Amt * DF * Uf * Vt / (Va * Ws * (100-M)/100) * CpndVariab

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	5.000	Unit correction factor
Vt	10.000	Total volume of methanol extract (mL)
Ws	10.000	Weight of the sample extracted (g)
M	0.00000	% Moisture
Va	100.000	Volume of the aliquot of methanol added(
Cpnd Variable		Local Compound Variable

CONCENTRATIONS

		ON-COLUMN		FINAL		
Compounds		RT	EXP RT	DLT RT	RESPONSE	(ug/L) (mg/Kg)
S 5 GRO		2.250-13.750		781842	31.0155	1.551(a)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ) .

Data File: \\192.168.10.12\chem\10gcv3.i\041613a-2.b/G1-10627.d

Report Date: 04/17/2013

Sample ID: 10225292010

Client ID:

Instrument: 10gcv3.i

ANDI G1-10627.d

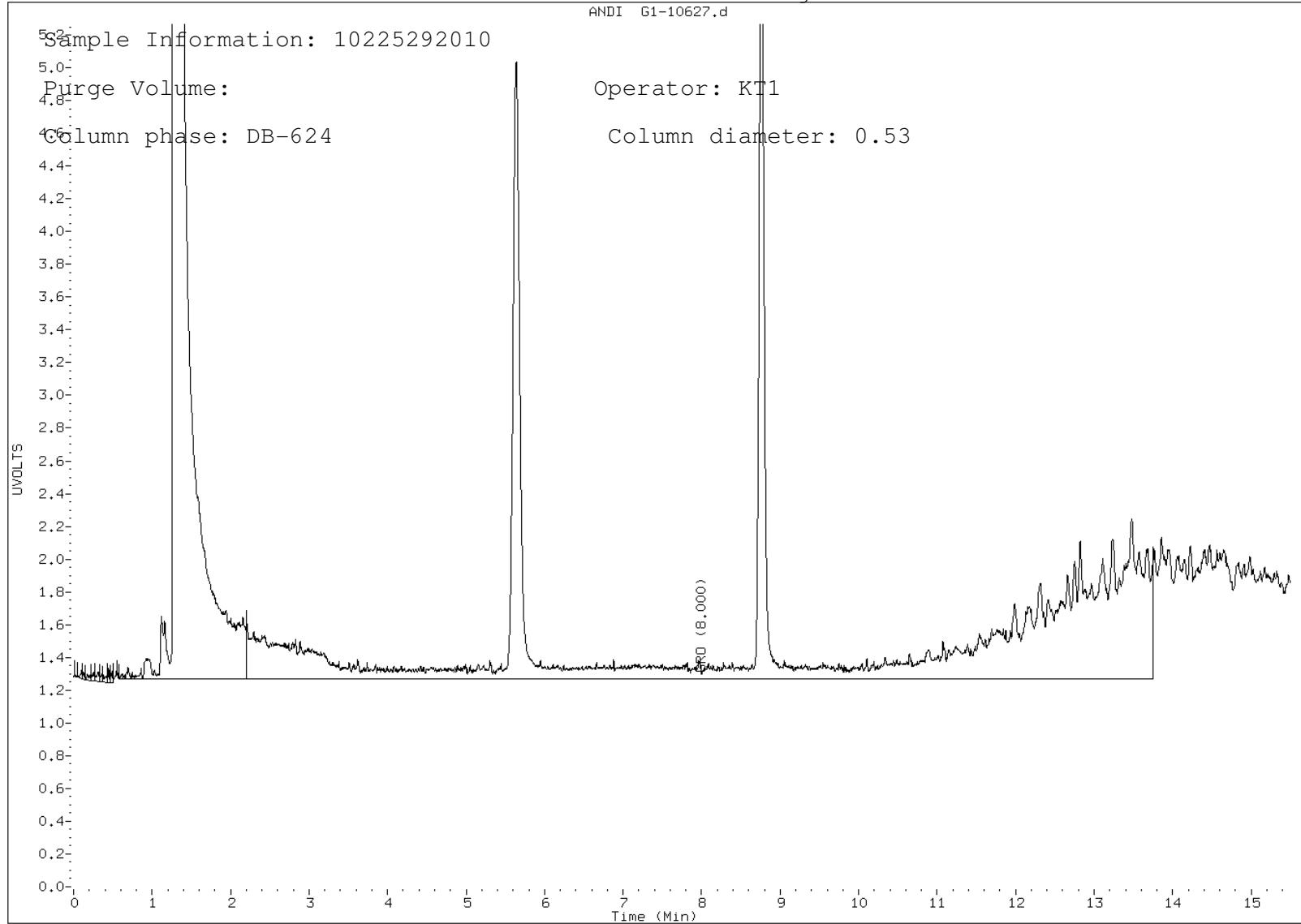
Sample Information: 10225292010

Purge Volume:

Column phase: DB-624

Operator: KT1

Column diameter: 0.53



Data File: 042113000024.D

Page 1

Report Date: 21-Apr-2013 15:57

Pace Analytical Services

WI Dept of Nat. Resources- WIDRO

Data file : \\192.168.10.12\chem\10gcs9.i\042113dro.b\042113000024.D

Lab Smp Id: 10225292010

Inj Date : 21-APR-2013 15:28

Operator : JRH Inst ID: 10gcs9.i

Smp Info : 10225292010

Misc Info : 11166

Comment : C10-C28 DRO

Method : \\192.168.10.12\chem\10gcs9.i\042113dro.b\WDRO9-032213.m

Meth Date : 21-Apr-2013 15:43 jheinecke Quant Type: ESTD

Cal Date : 22-MAR-2013 15:41 Cal File: 032213000030.D

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie Compound Sublist: dro.sub

Target Version: 4.14

Processing Host: 10VOA3

Concentration Formula: Amt * DF * Uf * Vt/(Ws * Vi*(100-M)/100) * CpndVariable

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	1.000	Volume of final extract (mL)
Ws	25.000	Weight of sample extracted (g)
Vi	1.000	Volume injected (uL)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN	FINAL
					(ug/mL)	(mg/kg)
S 1 Diesel Range Organics	0.860-2.109		160235796	509.904	20.4	
\$ 2 n-Triacontane (S)	2.185	2.179	0.006	27557022	109.866	
					4.39(aM)	

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10gcs9.i\042113dro.b\042113000024.D

Report Date: 04/21/2013

Sample ID: 10225292010

Client ID:

Instrument: 10gcs9.i

ANDI gas chromatography 042113000024.D

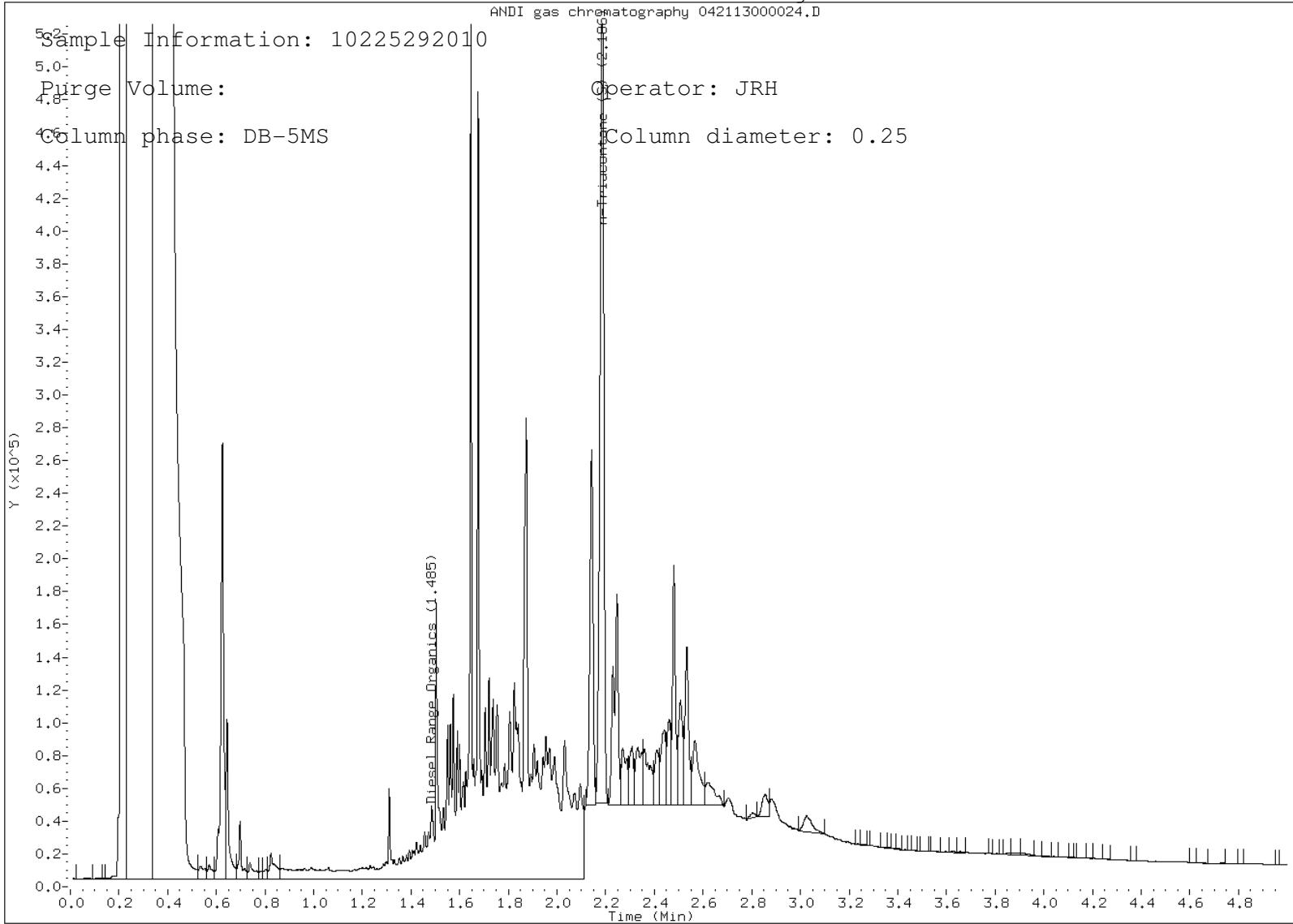
Sample Information: 10225292010

Operator: JRH

4.8 - 3 -

Column diameter: 0.25

Column phase: DB-5MS



Data File: \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180081.D Page 1
Report Date: 19-Apr-2013 11:20

Pace Analytical Services

WI Dept of Nat. Resources- WIDRO

Data file : \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180081.D

Lab Smp Id: 10225292012

Inj Date : 19-APR-2013 08:39

Operator : MT Inst ID: 10gcsC.i

Smp Info : 10225292012

Misc Info : 11149

Comment : C10-C28 DRO

Method : \\192.168.10.12\chem\10gcsC.i\041813dro.b\WDROC-041213.m

Meth Date : 19-Apr-2013 09:59 jheinecke Quant Type: ESTD

Cal Date : 12-APR-2013 14:41 Cal File: 04120025.D

Als bottle: 43

Dil Factor: 1.00000

Integrator: HP Genie Compound Sublist: dro.sub

Target Version: 4.14

Processing Host: 10VOA3

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/L)
S 1 Diesel Range Organics	1.100	-6.380		19863478	6.94069	0.00694
\$ 2 n-Triacontane (S)	6.495	6.528	-0.033	11737284	40.8528	0.0408 (aM)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10gcsC.i\041813dro.b\04180081.D

Report Date: 04/19/2013

Sample ID: 10225292012

Client ID:

Instrument: 10gcsC.i

HP6890 GC Data, FID1A.CH

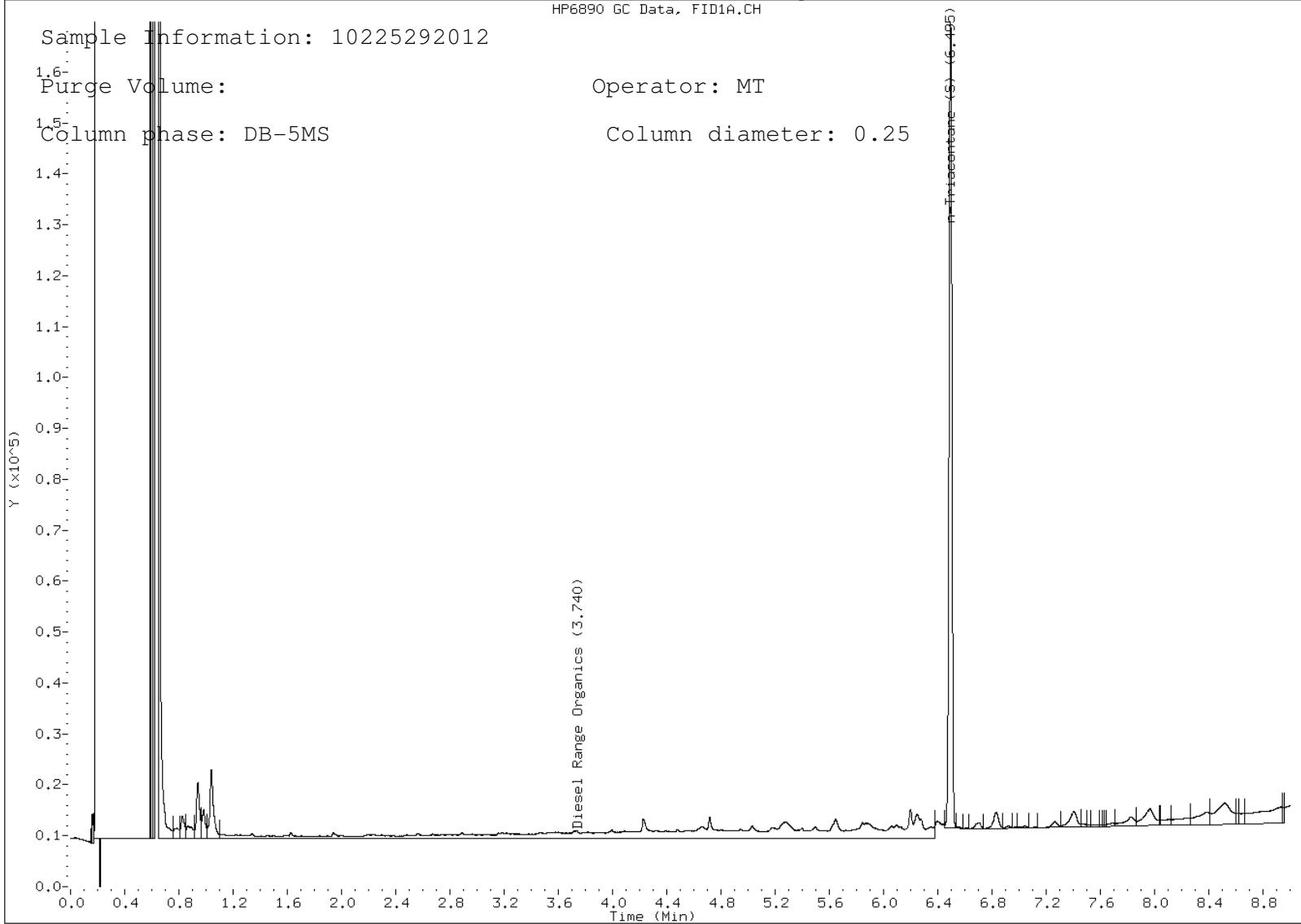
Sample Information: 10225292012

Purge Volume:

Operator: MT

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\192.168.10.12\chem\10gcv3.i\041813b-2.b\G1-10827.d Page 1
Report Date: 22-Apr-2013 12:57

Pace Analytical Services

Wisconsin GAS RANGE ORGANICS

Data file : \\192.168.10.12\chem\10gcv3.i\041813b-2.b\G1-10827.d
Lab Smp Id: 10225292012
Inj Date : 19-APR-2013 01:14
Operator : KT1 Inst ID: 10gcv3.i
Smp Info : 10225292012
Misc Info : 10614
Comment : Modified WIGRO
Method : \\192.168.10.12\chem\10gcv3.i\041813b-2.b\g313-wigro-108.m
Meth Date : 22-Apr-2013 12:57 10gcv3.i Quant Type: ESTD
Cal Date : 18-APR-2013 20:01 Cal File: G1-10811.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: SEMIVOLGCMS

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds RT EXP RT DLT RT RESPONSE (ug/L) (ug/L)

===== ===== ===== ===== ===== =====

S 5 GRO Compound Not Detected.

Data File: \\192.168.10.12\chem\10gcv3.i\041813b-2.b/G1-10827.d

Report Date: 04/22/2013

Sample ID: 10225292012

Client ID:

Instrument: 10gcv3.i

ANDI G1-10827.d

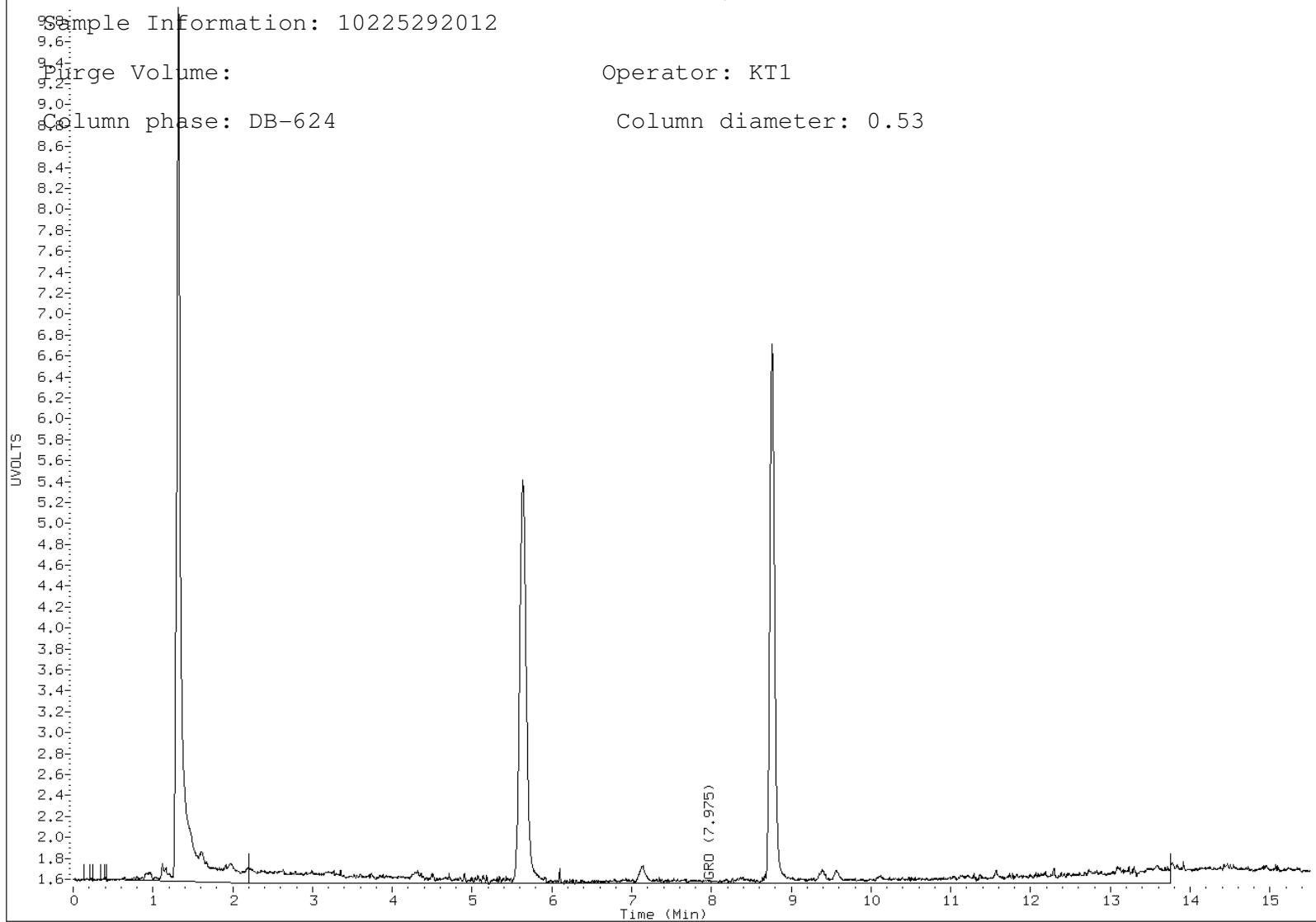
Sample Information: 10225292012

Purge Volume:

Operator: KT1

Column phase: DB-624

Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv3.i\041613a-2.b\G1-10628.d Page 1
Report Date: 17-Apr-2013 14:39

Pace Analytical Services

WIGRO GASOLINE RANGE ORGANICS

Data file : \\192.168.10.12\chem\10gcv3.i\041613a-2.b\G1-10628.d
Lab Smp Id: 10225292013
Inj Date : 16-APR-2013 21:24
Operator : KT1 Inst ID: 10gcv3.i
Smp Info : 10225292013
Misc Info : 10598
Comment : WIGRO GASOLINE RANGE ORGANICS
Method : \\192.168.10.12\chem\10gcv3.i\041613a-2.b\G313-GROsoil-101.m
Meth Date : 17-Apr-2013 14:38 10gcv3.i Quant Type: ESTD
Cal Date : 11-APR-2013 21:36 Cal File: G1-10124.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: SEMIVOLGCMS

Concentration Formula: Amt * DF * Uf * Vt / (Va * Ws * (100-M)/100) * CpndVariab

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	5.000	Unit correction factor
Vt	10.000	Total volume of methanol extract (mL)
Ws	10.000	Weight of the sample extracted (g)
M	0.00000	% Moisture
Va	100.000	Volume of the aliquot of methanol added(
Cpnd Variable		Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(mg/Kg)
S 5 GRO	2.250-13.750			613090	10.8534	0.5427(a)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ) .

Data File: \\192.168.10.12\chem\10gcv3.i\041613a-2.b/G1-10628.d

Report Date: 04/17/2013

Sample ID: 10225292013

Client ID:

Instrument: 10gcv3.i

ANDI G1-10628.d

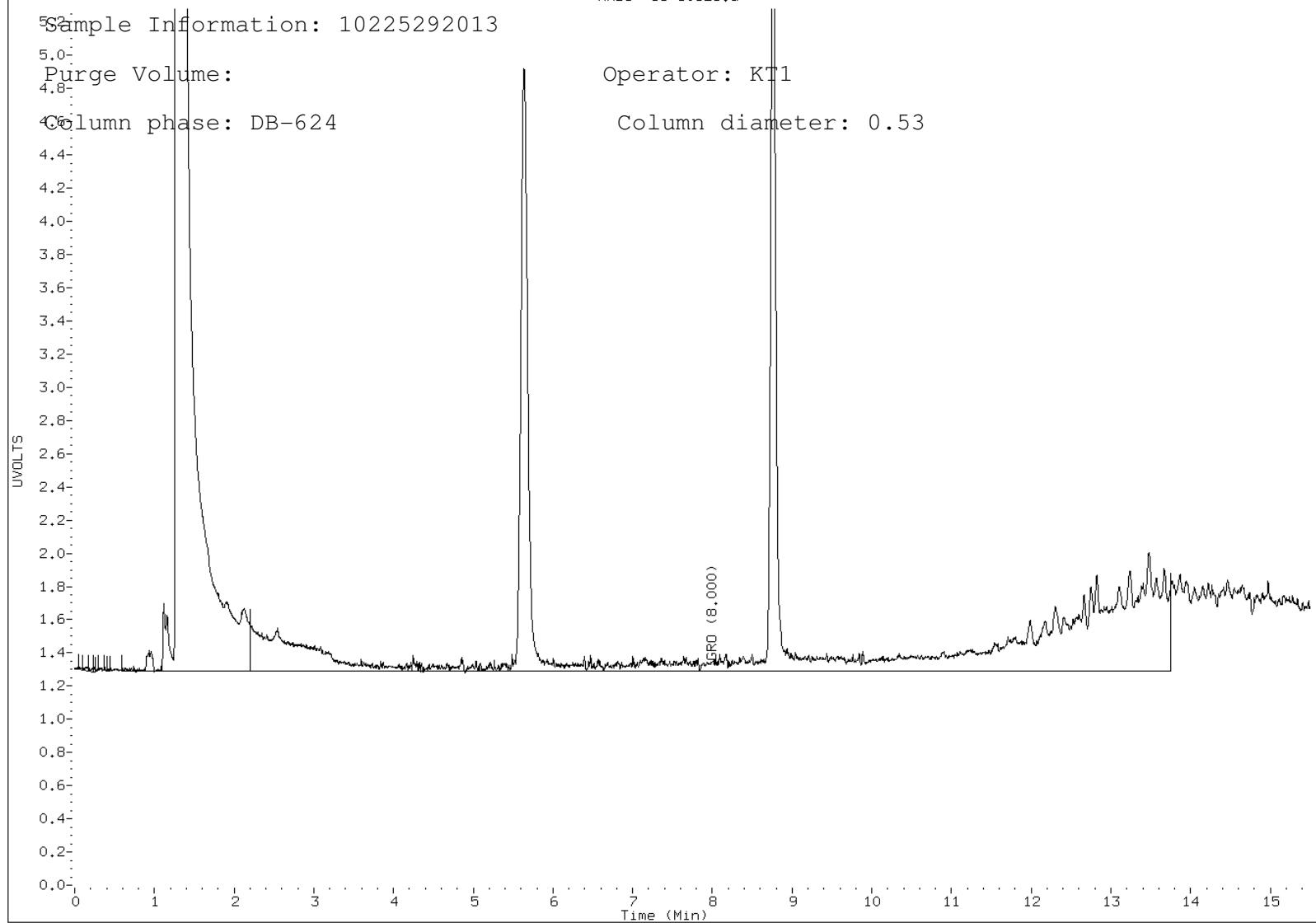
Sample Information: 10225292013

Purge Volume:

Column phase: DB-624

Operator: KT1

Column diameter: 0.53



Data File: 042113000021.D

Page 1

Report Date: 21-Apr-2013 15:56

Pace Analytical Services

WI Dept of Nat. Resources- WIDRO

Data file : \\192.168.10.12\chem\10gcs9.i\042113dro.b\042113000021.D

Lab Smp Id: 10225292013

Inj Date : 21-APR-2013 15:08

Operator : JRH Inst ID: 10gcs9.i

Smp Info : 10225292013

Misc Info : 11166

Comment : C10-C28 DRO

Method : \\192.168.10.12\chem\10gcs9.i\042113dro.b\WDRO9-032213.m

Meth Date : 21-Apr-2013 15:43 jheinecke Quant Type: ESTD

Cal Date : 22-MAR-2013 15:41 Cal File: 032213000030.D

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie Compound Sublist: dro.sub

Target Version: 4.14

Processing Host: 10VOA3

Concentration Formula: Amt * DF * Uf * Vt/(Ws * Vi*(100-M)/100) * CpndVariable

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	1.000	Volume of final extract (mL)
Ws	25.000	Weight of sample extracted (g)
Vi	1.000	Volume injected (uL)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/kg)
=====	====	=====	=====	=====	=====	=====
S 1 Diesel Range Organics	0.860-2.109			98695849	312.807	12.5
\$ 2 n-Triacontane (S)	2.185	2.179	0.006	24677406	98.3857	3.94(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10gcs9.i\042113dro.b\042113000021.D

Report Date: 04/21/2013

Sample ID: 10225292013

Client ID:

Instrument: 10gcs9.i

ANDI gas chromatography 042113000021.D

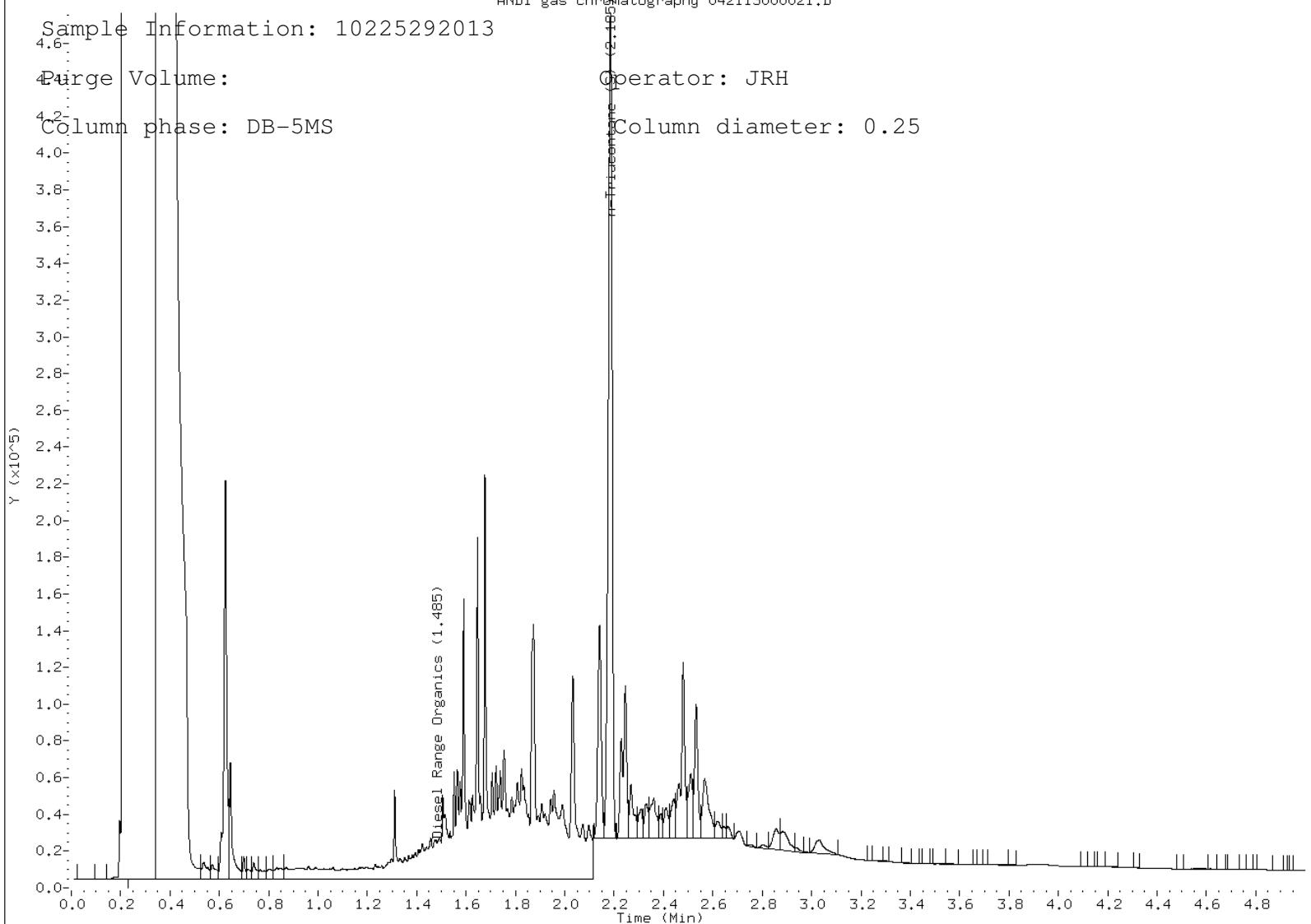
Sample Information: 10225292013

Purge Volume:

Operator: JRH

Column phase: DB-5MS

Column diameter: 0.25



Data File: 042113000026.D

Page 1

Report Date: 21-Apr-2013 15:57

Pace Analytical Services

WI Dept of Nat. Resources- WIDRO

Data file : \\192.168.10.12\chem\10gcs9.i\042113dro.b\042113000026.D

Lab Smp Id: 10225292015

Inj Date : 21-APR-2013 15:42

Operator : JRH Inst ID: 10gcs9.i

Smp Info : 10225292015

Misc Info : 11166

Comment : C10-C28 DRO

Method : \\192.168.10.12\chem\10gcs9.i\042113dro.b\WDRO9-032213.m

Meth Date : 21-Apr-2013 15:43 jheinecke Quant Type: ESTD

Cal Date : 22-MAR-2013 15:41 Cal File: 032213000030.D

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie Compound Sublist: dro.sub

Target Version: 4.14

Processing Host: 10VOA3

Concentration Formula: Amt * DF * Uf * Vt/(Ws * Vi*(100-M)/100) * CpndVariable

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	1.000	Volume of final extract (mL)
Ws	25.000	Weight of sample extracted (g)
Vi	1.000	Volume injected (uL)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

		RT	EXP RT	DLT RT	RESPONSE	(ug/mL) (mg/kg)
Compounds						
=====	=====	=====	=====	=====	=====	=====
S 1 Diesel Range Organics		0.860-2.109		321028862	1024.88	41.0
\$ 2 n-Triacontane (S)		2.188	2.179	0.009	27318337	108.915
						4.36 (aM)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10gcs9.i\042113dro.b\042113000026.D

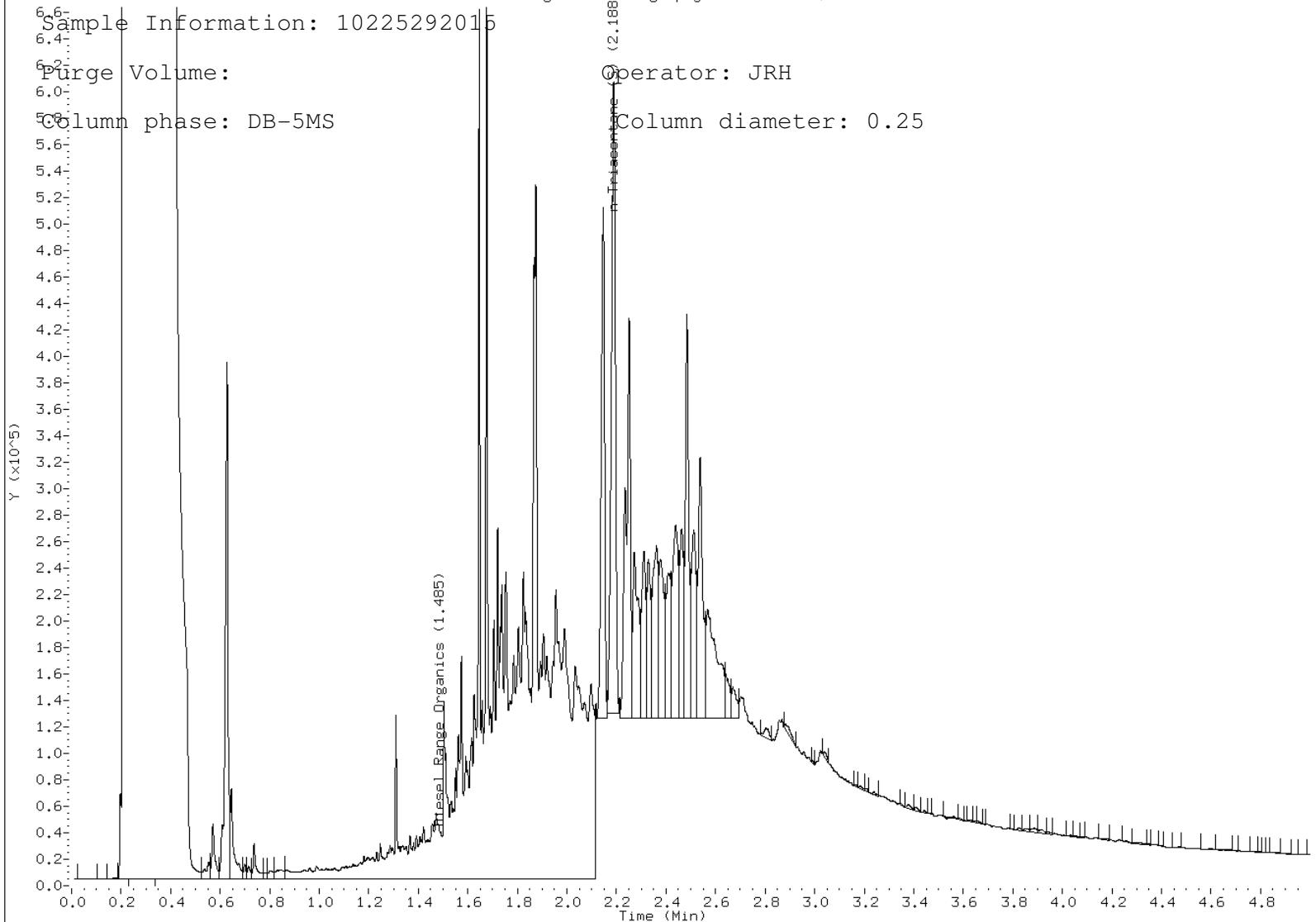
Report Date: 04/21/2013

Sample ID: 10225292015

Client ID:

Instrument: 10gcs9.i

ANDI gas chromatography 042113000026.D



Data File: \\192.168.10.12\chem\10gcv3.i\041613a-2.b\G1-10629.d Page 1
Report Date: 17-Apr-2013 14:39

Pace Analytical Services

WIGRO GASOLINE RANGE ORGANICS

Data file : \\192.168.10.12\chem\10gcv3.i\041613a-2.b\G1-10629.d
Lab Smp Id: 10225292015
Inj Date : 16-APR-2013 21:43
Operator : KT1 Inst ID: 10gcv3.i
Smp Info : 10225292015
Misc Info : 10598
Comment : WIGRO GASOLINE RANGE ORGANICS
Method : \\192.168.10.12\chem\10gcv3.i\041613a-2.b\G313-GROsoil-101.m
Meth Date : 17-Apr-2013 14:38 10gcv3.i Quant Type: ESTD
Cal Date : 11-APR-2013 21:36 Cal File: G1-10124.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: SEMIVOLGCMS

Concentration Formula: Amt * DF * Uf * Vt / (Va * Ws * (100-M)/100) * CpndVariab

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	5.000	Unit correction factor
Vt	10.000	Total volume of methanol extract (mL)
Ws	10.000	Weight of the sample extracted (g)
M	0.00000	% Moisture
Va	100.000	Volume of the aliquot of methanol added(
Cpnd	Variable	Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(mg/Kg)
=====	=====	=====	=====	=====	=====	=====
S 5 GRO				Compound Not Detected.		

Data File: \\192.168.10.12\chem\10gcv3.i\041613a-2.b/G1-10629.d

Report Date: 04/17/2013

Sample ID: 10225292015

Client ID:

Instrument: 10gcv3.i

ANDI G1-10629.d

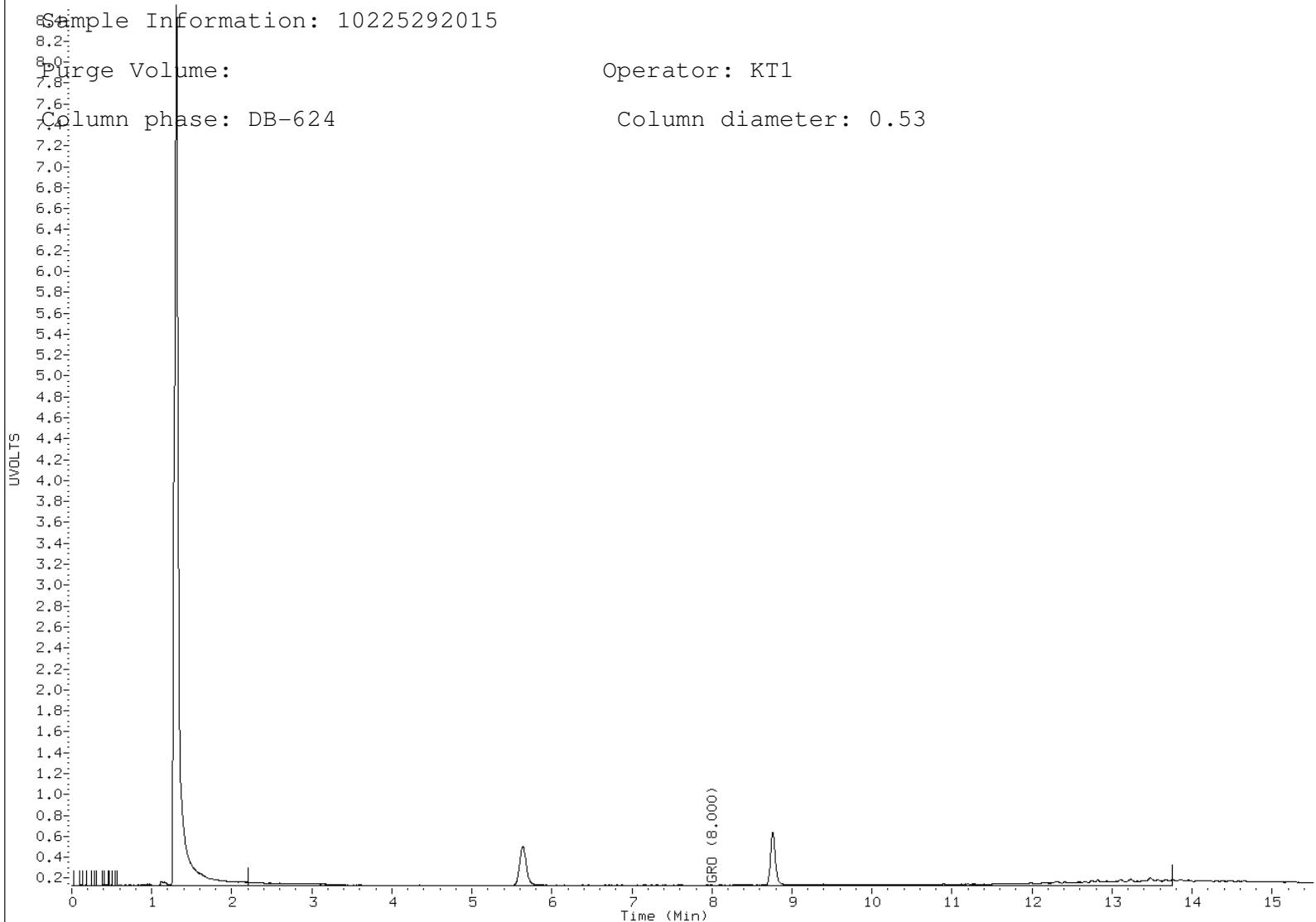
Sample Information: 10225292015

Purge Volume:

Operator: KT1

Column phase: DB-624

Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv3.i\042213b-2.b\G1-11218.d Page 1
Report Date: 23-Apr-2013 11:23

Pace Analytical Services

WIGRO GASOLINE RANGE ORGANICS

Data file : \\192.168.10.12\chem\10gcv3.i\042213b-2.b\G1-11218.d
Lab Smp Id: 10225292018
Inj Date : 22-APR-2013 17:48
Operator : KT1 Inst ID: 10gcv3.i
Smp Info : 10225292018
Misc Info : 10609
Comment : WIGRO GASOLINE RANGE ORGANICS
Method : \\192.168.10.12\chem\10gcv3.i\042213b-2.b\G313-GROsoil-112.m
Meth Date : 23-Apr-2013 11:23 10gcv3.i Quant Type: ESTD
Cal Date : 22-APR-2013 14:24 Cal File: G1-11211.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: SEMIVOLGCMS

Concentration Formula: Amt * DF * Uf * Vt / (Va * Ws * (100-M)/100) * CpndVariab

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	5.000	Unit correction factor
Vt	10.000	Total volume of methanol extract (mL)
Ws	10.000	Weight of the sample extracted (g)
M	0.00000	% Moisture
Va	100.000	Volume of the aliquot of methanol added(
Cpnd Variable		Local Compound Variable

CONCENTRATIONS

		ON-COLUMN		FINAL		
Compounds		RT	EXP RT	DLT RT	RESPONSE	(ug/L) (mg/Kg)
S 5 GRO		2.250-13.750		500370	10.3420	0.5171(a)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ) .

Data File: \\192.168.10.12\chem\10gcv3.i\042213b-2.b/G1-11218.d

Report Date: 04/23/2013

Sample ID: 10225292018

Client ID:

Instrument: 10gcv3.i

ANDI G1-11218.d

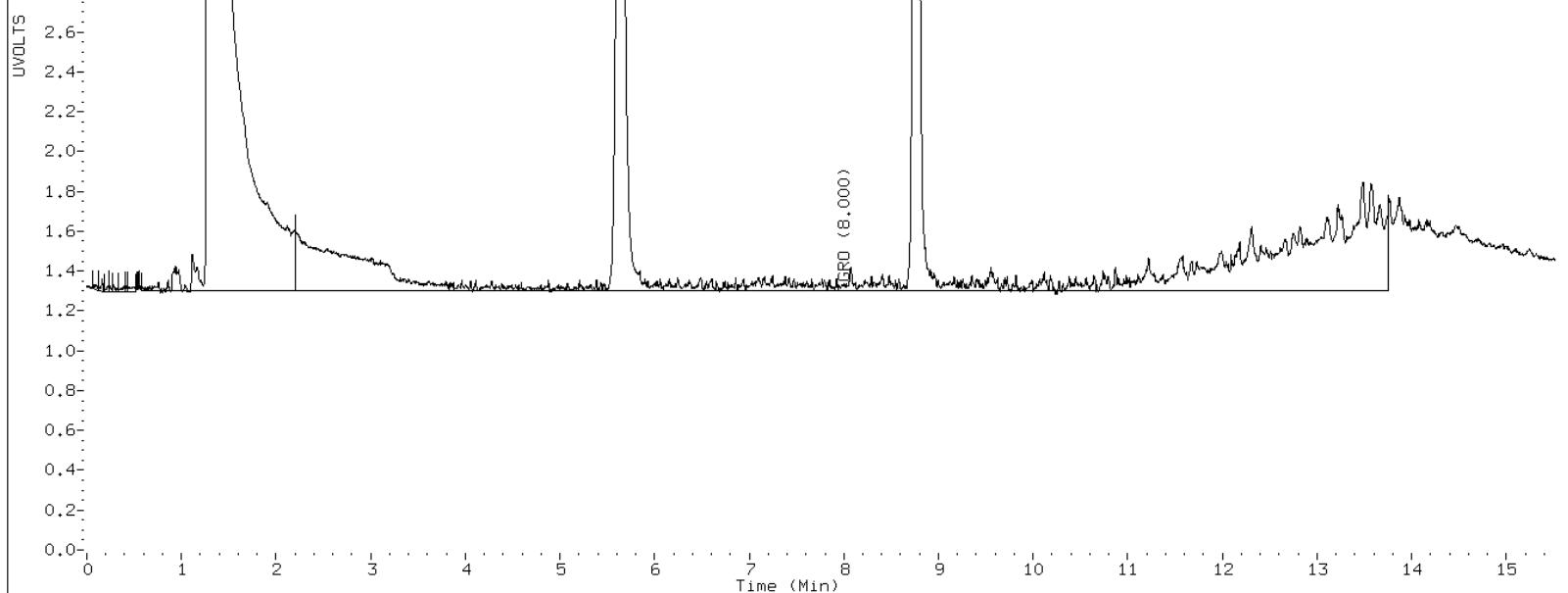
5.2
5.0
5.2 Sample Information: 10225292018

Operator: KT1

4.8 Purge Volume:

Column diameter: 0.53

4.6 Column phase: DB-624



Data File: 042113000022.D

Page 1

Report Date: 21-Apr-2013 15:56

Pace Analytical Services

WI Dept of Nat. Resources- WIDRO

Data file : \\192.168.10.12\chem\10gcs9.i\042113dro.b\042113000022.D

Lab Smp Id: 10225292018

Inj Date : 21-APR-2013 15:14

Operator : JRH Inst ID: 10gcs9.i

Smp Info : 10225292018

Misc Info : 11166

Comment : C10-C28 DRO

Method : \\192.168.10.12\chem\10gcs9.i\042113dro.b\WDRO9-032213.m

Meth Date : 21-Apr-2013 15:43 jheinecke Quant Type: ESTD

Cal Date : 22-MAR-2013 15:41 Cal File: 032213000030.D

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie Compound Sublist: dro.sub

Target Version: 4.14

Processing Host: 10VOA3

Concentration Formula: Amt * DF * Uf * Vt/(Ws * Vi*(100-M)/100) * CpndVariable

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	1.000	Volume of final extract (mL)
Ws	25.000	Weight of sample extracted (g)
Vi	1.000	Volume injected (uL)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/kg)
=====	====	=====	=====	=====	=====	=====
S 1 Diesel Range Organics	0.860-2.109			83950468	265.581	10.6
\$ 2 n-Triacontane (S)	2.185	2.179	0.006	26456418	105.478	4.22(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10gcs9.i\042113dro.b\042113000022.D

Report Date: 04/21/2013

Sample ID: 10225292018

Client ID:

Instrument: 10gcs9.i

ANDI gas chromatography 042113000022.D

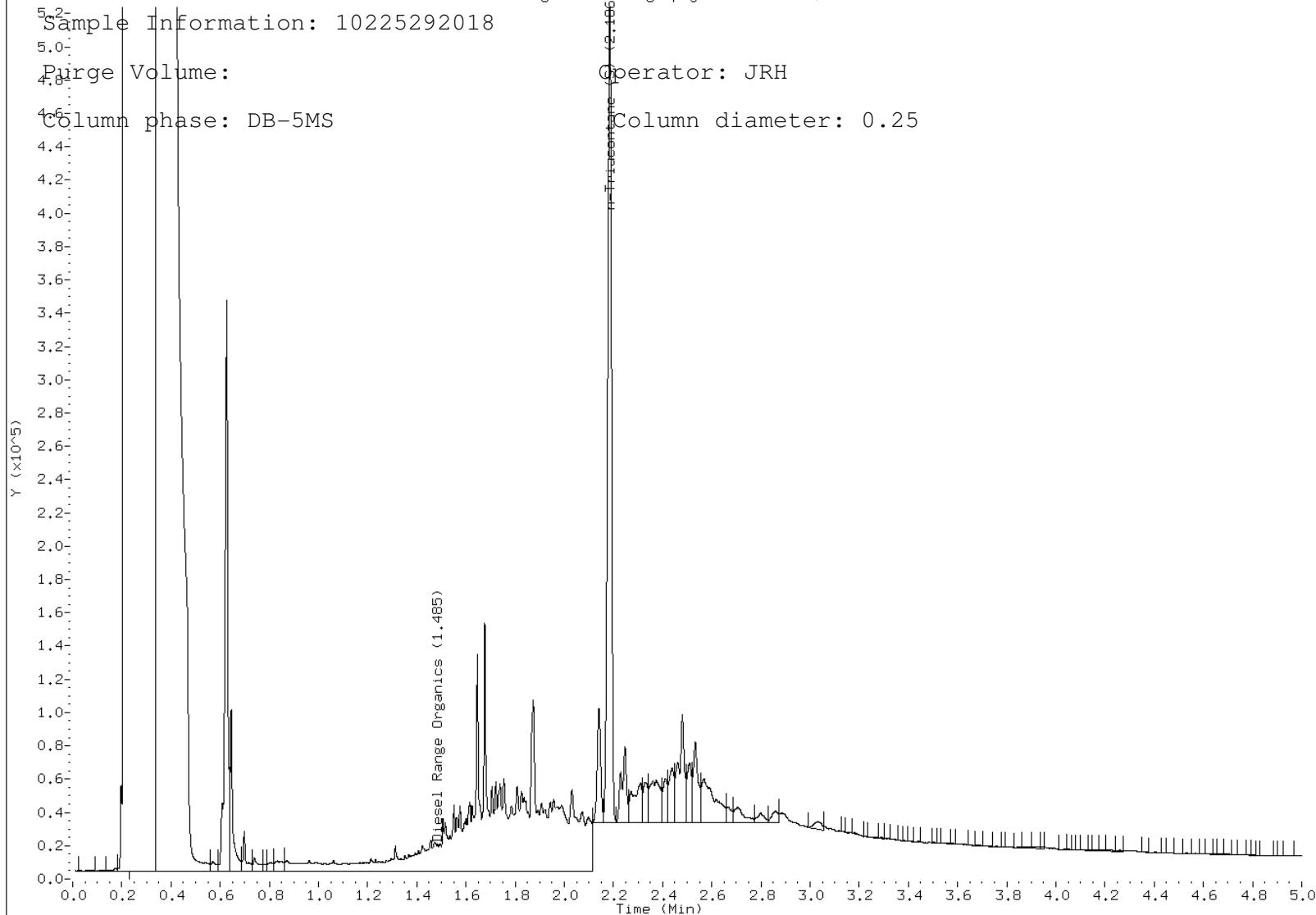
Sample Information: 10225292018

Operator: JRH

Purge Volume:

Column diameter: 0.25

Column phase: DB-5MS



Data File: \\192.168.10.12\chem\10gcv3.i\041813b-2.b\G1-10828.d Page 1
Report Date: 22-Apr-2013 12:57

Pace Analytical Services

Wisconsin GAS RANGE ORGANICS

Data file : \\192.168.10.12\chem\10gcv3.i\041813b-2.b\G1-10828.d
Lab Smp Id: 10225292019
Inj Date : 19-APR-2013 01:34
Operator : KT1 Inst ID: 10gcv3.i
Smp Info : 10225292019
Misc Info : 10614
Comment : Modified WIGRO
Method : \\192.168.10.12\chem\10gcv3.i\041813b-2.b\g313-wigro-108.m
Meth Date : 22-Apr-2013 12:57 10gcv3.i Quant Type: ESTD
Cal Date : 18-APR-2013 20:01 Cal File: G1-10811.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: SEMIVOLGCMS

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds RT EXP RT DLT RT RESPONSE (ug/L) (ug/L)

===== ===== ===== ===== ===== =====

S 5 GRO Compound Not Detected.

Data File: \\192.168.10.12\chem\10gcv3.i\041813b-2.b/G1-10828.d

Report Date: 04/22/2013

Sample ID: 10225292019

Client ID:

Instrument: 10gcv3.i

ANDI G1-10828.d

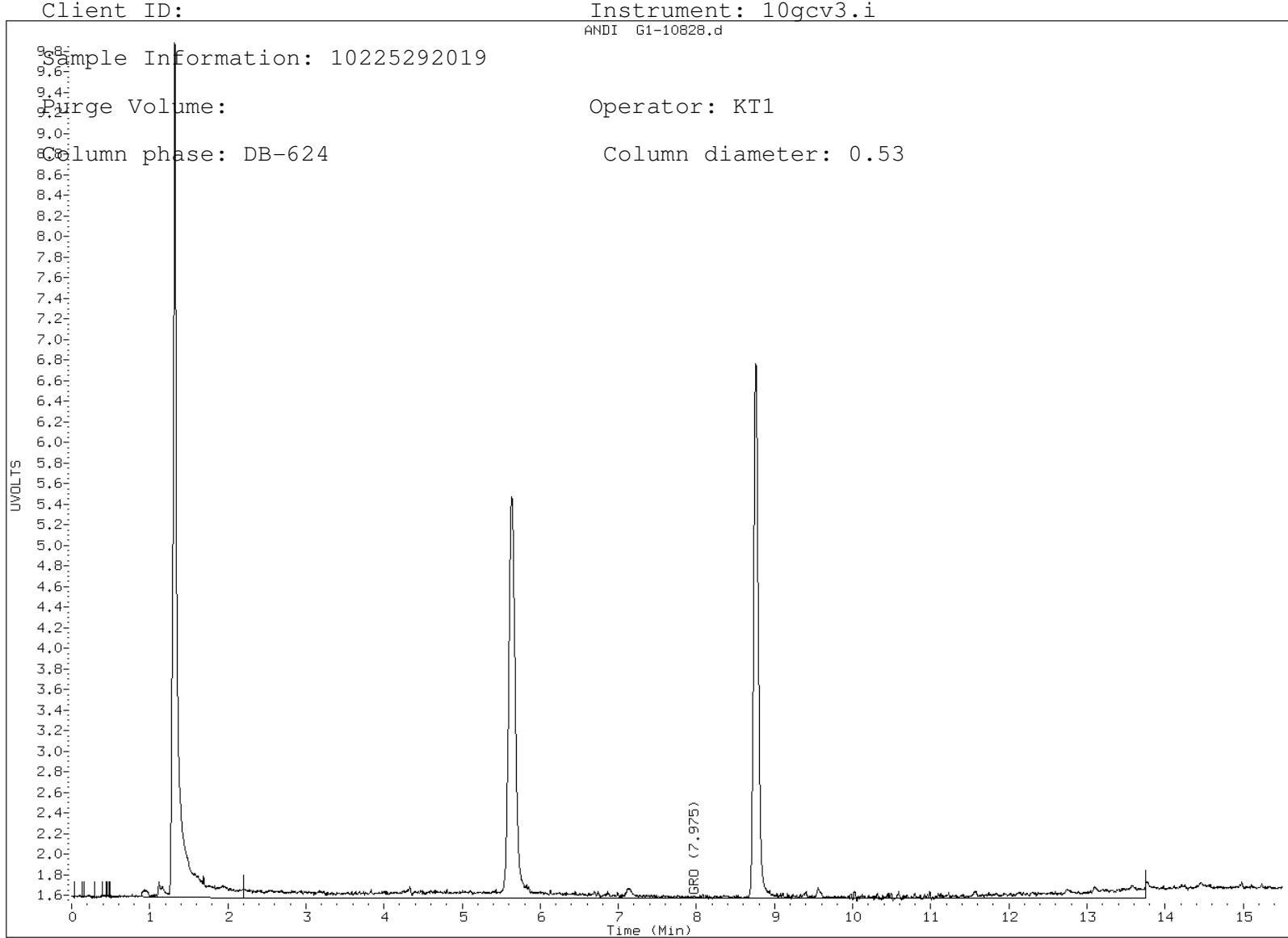
Sample Information: 10225292019

Purge Volume:

Operator: KT1

Column phase: DB-624

Column diameter: 0.53



Data File: 041913000078.D

Page 1

Report Date: 20-Apr-2013 12:42

Pace Analytical Services

WI Dept of Nat. Resources- WIDRO

Data file : \\192.168.10.12\chem\10gcs9.i\041913dro.b\041913000078.D

Lab Smp Id: 10225292019

Inj Date : 19-APR-2013 23:07

Operator : JRH Inst ID: 10gcs9.i

Smp Info : 10225292019

Misc Info : 11157

Comment : C10-C28 DRO

Method : \\192.168.10.12\chem\10gcs9.i\041913dro.b\WDRO9-032213.m

Meth Date : 20-Apr-2013 10:10 jheinecke Quant Type: ESTD

Cal Date : 22-MAR-2013 15:41 Cal File: 032213000030.D

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie Compound Sublist: dro.sub

Target Version: 4.14

Processing Host: 10VOA3

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1.000	Volume of final extract (mL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/L)
S 1 Diesel Range Organics	0.860-2.109			31670701	98.1415	0.0981
\$ 2 n-Triacontane (S)	2.178	2.179	-0.001	11975756	47.7458	0.0477(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10gcs9.i\041913dro.b\041913000078.D

Report Date: 04/20/2013

Sample ID: 10225292019

Client ID:

Instrument: 10gcs9.i

ANDI gas chromatography 041913000078.D

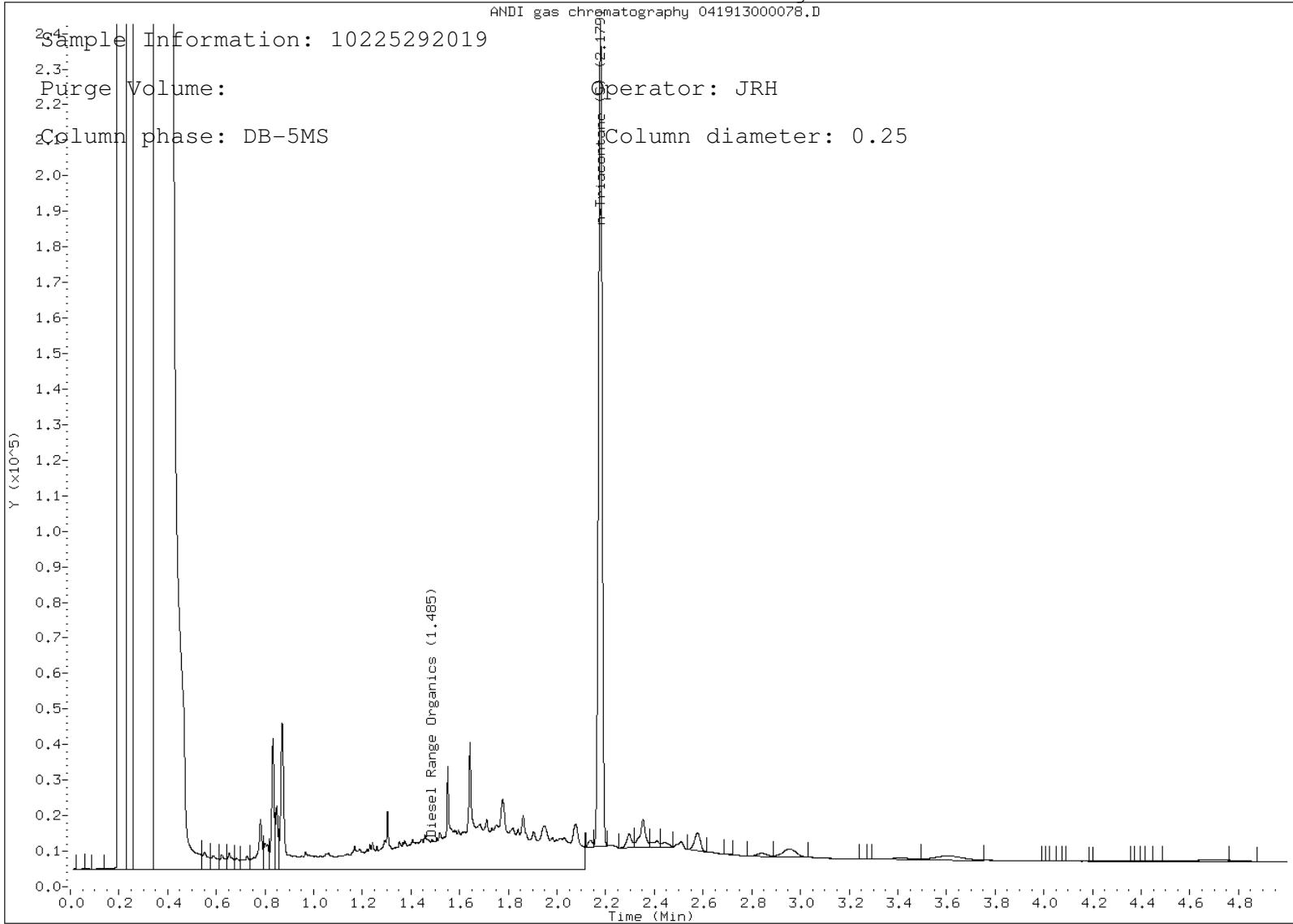
Sample Information: 10225292019

Purge Volume:

Operator: JRH

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\192.168.10.12\chem\10gcv3.i\041913b-2.b\G1-10932.d Page 1
Report Date: 23-Apr-2013 11:14

Pace Analytical Services

WIGRO GASOLINE RANGE ORGANICS

Data file : \\192.168.10.12\chem\10gcv3.i\041913b-2.b\G1-10932.d
Lab Smp Id: 10225292020 Client Smp ID: 10225292020
Inj Date : 20-APR-2013 02:59
Operator : KT1 Inst ID: 10gcv3.i
Smp Info : 10225292020
Misc Info : 10609
Comment : WIGRO GASOLINE RANGE ORGANICS
Method : \\192.168.10.12\chem\10gcv3.i\041913b-2.b\G313-GROsoil-109.m
Meth Date : 23-Apr-2013 11:14 10gcv3.i Quant Type: ESTD
Cal Date : 19-APR-2013 20:08 Cal File: G1-10911.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: SEMIVOLGCMS

Concentration Formula: Amt * DF * Uf * Vt / (Va * Ws * (100-M)/100) * CpndVariab

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	5.000	Unit correction factor
Vt	10.000	Total volume of methanol extract (mL)
Ws	10.000	Weight of the sample extracted (g)
M	0.00000	% Moisture
Va	100.000	Volume of the aliquot of methanol added(
Cpnd	Variable	Local Compound Variable

CONCENTRATIONS

Compounds	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN	FINAL
					(ug/L)	(mg/Kg)
=====	=====	=====	=====	=====	=====	=====
S 5 GRO	2.250-13.750			1161387	80.1125	4.006

Data File: \\192.168.10.12\chem\10gcv3.i\041913b-2.b/G1-10932.d

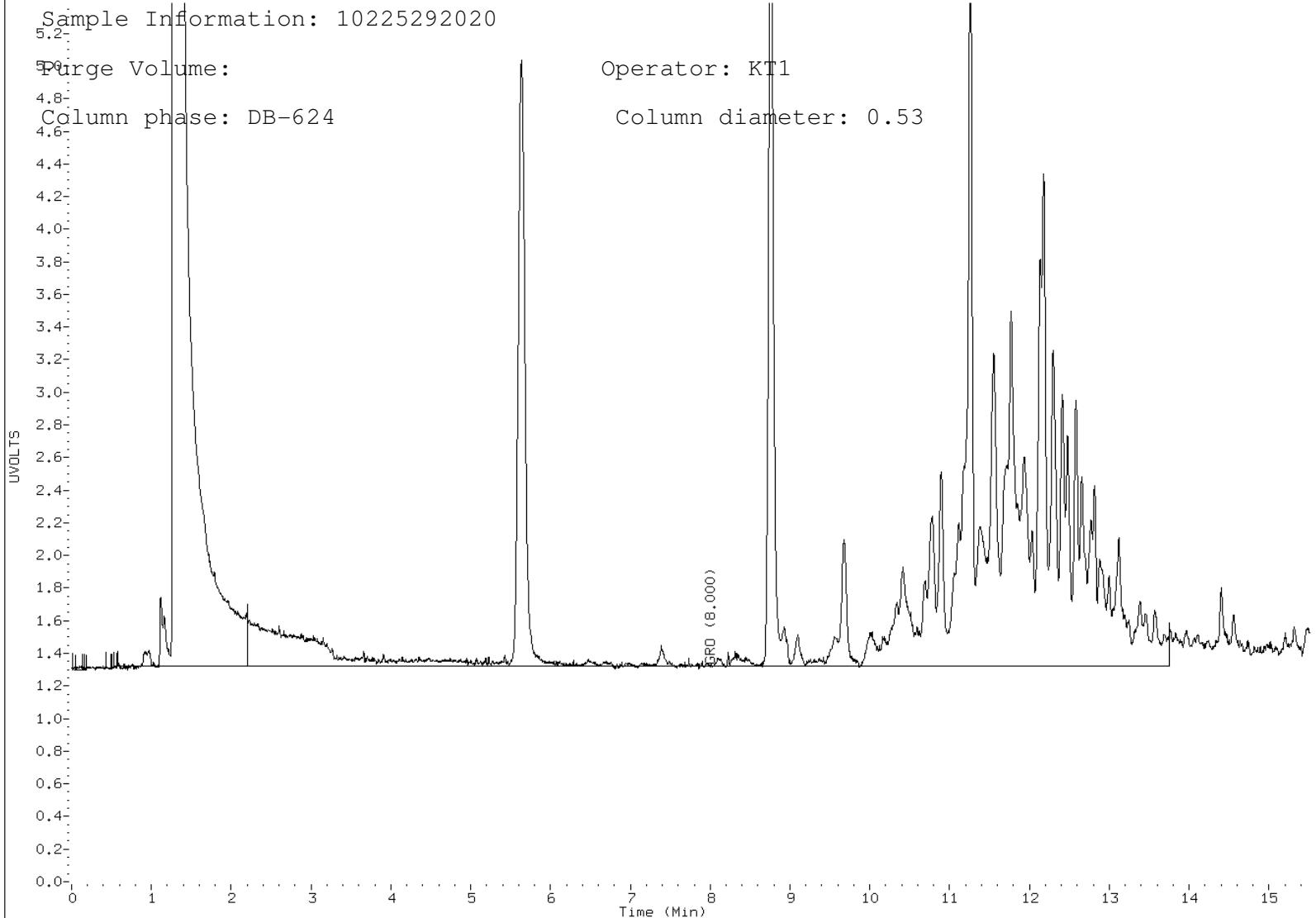
Report Date: 04/23/2013

Sample ID: 10225292020

Client ID: 10225292020

Instrument: 10gcv3.i

ANDI G1-10932.d



Data File: 042113000018.D

Page 1

Report Date: 21-Apr-2013 15:56

Pace Analytical Services

WI Dept of Nat. Resources- WIDRO

Data file : \\192.168.10.12\chem\10gcs9.i\042113dro.b\042113000018.D

Lab Smp Id: 10225292020

Inj Date : 21-APR-2013 14:47

Operator : JRH Inst ID: 10gcs9.i

Smp Info : 10225292020

Misc Info : 11166

Comment : C10-C28 DRO

Method : \\192.168.10.12\chem\10gcs9.i\042113dro.b\WDRO9-032213.m

Meth Date : 21-Apr-2013 15:43 jheinecke Quant Type: ESTD

Cal Date : 22-MAR-2013 15:41 Cal File: 032213000030.D

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie Compound Sublist: dro.sub

Target Version: 4.14

Processing Host: 10VOA3

Concentration Formula: Amt * DF * Uf * Vt/(Ws * Vi*(100-M)/100) * CpndVariable

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	1.000	Volume of final extract (mL)
Ws	25.000	Weight of sample extracted (g)
Vi	1.000	Volume injected (uL)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

		RT	EXP RT	DLT RT	RESPONSE	(ug/mL) (mg/kg)
Compounds						
=====	=====	=====	=====	=====	=====	=====
S 1 Diesel Range Organics		0.860-2.109		18578560	56.2105	2.25
\$ 2 n-Triacontane (S)		2.182	2.179	0.003	23104974	92.1166 3.68(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10gcs9.i\042113dro.b\042113000018.D

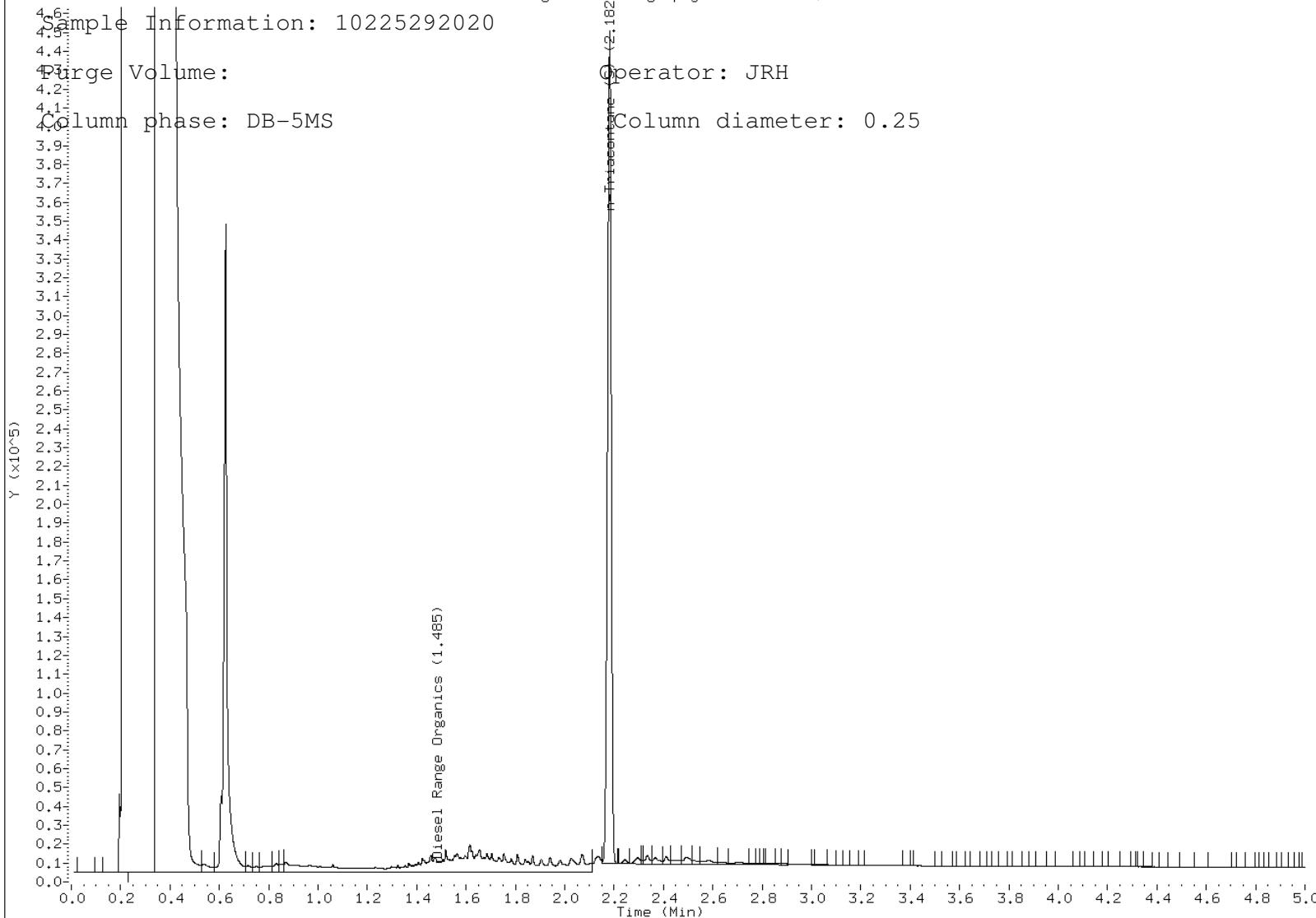
Report Date: 04/21/2013

Sample ID: 10225292020

Client ID:

Instrument: 10gcs9.i

ANDI gas chromatography 042113000018.D



Data File: 042113000017.D

Page 1

Report Date: 21-Apr-2013 15:55

Pace Analytical Services

WI Dept of Nat. Resources- WIDRO

Data file : \\192.168.10.12\chem\10gcs9.i\042113dro.b\042113000017.D

Lab Smp Id: 10225292021

Inj Date : 21-APR-2013 14:40

Operator : JRH Inst ID: 10gcs9.i

Smp Info : 10225292021

Misc Info : 11166

Comment : C10-C28 DRO

Method : \\192.168.10.12\chem\10gcs9.i\042113dro.b\WDR09-032213.m

Meth Date : 21-Apr-2013 15:43 jheinecke Quant Type: ESTD

Cal Date : 22-MAR-2013 15:41 Cal File: 032213000030.D

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie Compound Sublist: dro.sub

Target Version: 4.14

Processing Host: 10VOA3

Concentration Formula: Amt * DF * Uf * Vt/(Ws * Vi*(100-M)/100) * CpndVariable

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	1.000	Volume of final extract (mL)
Ws	25.000	Weight of sample extracted (g)
Vi	1.000	Volume injected (uL)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

		RT	EXP RT	DLT RT	RESPONSE	(ug/mL) (mg/kg)
Compounds						
=====	=====	=====	=====	=====	=====	=====
S 1 Diesel Range Organics		0.860-2.109		24788159	76.0984	3.04
\$ 2 n-Triacontane (S)		2.183	2.179	0.004	26148164	104.249
						4.17(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10gcs9.i\042113dro.b\042113000017.D

Report Date: 04/21/2013

Sample ID: 10225292021

Client ID:

Instrument: 10gcs9.i

ANDI gas chromatography 042113000017.D

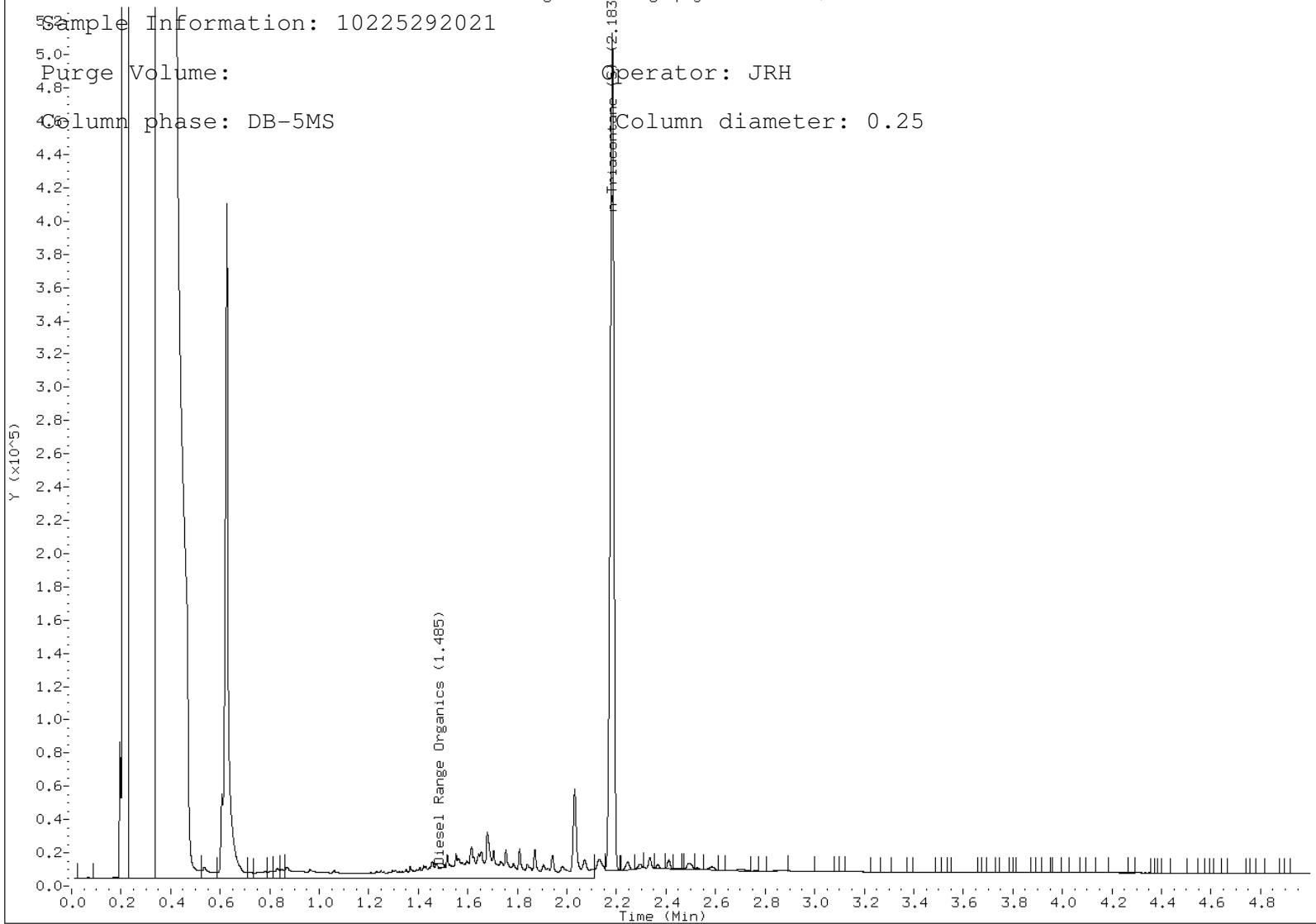
Sample Information: 10225292021

Purge Volume:

Operator: JRH

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\192.168.10.12\chem\10gcv3.i\041913b-2.b\G1-10933.d Page 1
Report Date: 23-Apr-2013 11:15

Pace Analytical Services

WIGRO GASOLINE RANGE ORGANICS

Data file : \\192.168.10.12\chem\10gcv3.i\041913b-2.b\G1-10933.d
Lab Smp Id: 10225292021 Client Smp ID: 10225292021
Inj Date : 20-APR-2013 03:18
Operator : KT1 Inst ID: 10gcv3.i
Smp Info : 10225292021
Misc Info : 10609
Comment : WIGRO GASOLINE RANGE ORGANICS
Method : \\192.168.10.12\chem\10gcv3.i\041913b-2.b\G313-GROsoil-109.m
Meth Date : 23-Apr-2013 11:14 10gcv3.i Quant Type: ESTD
Cal Date : 19-APR-2013 20:08 Cal File: G1-10911.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: SEMIVOLGCMS

Concentration Formula: Amt * DF * Uf * Vt / (Va * Ws * (100-M)/100) * CpndVariab

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	5.000	Unit correction factor
Vt	10.000	Total volume of methanol extract (mL)
Ws	10.000	Weight of the sample extracted (g)
M	0.00000	% Moisture
Va	100.000	Volume of the aliquot of methanol added(
Cpnd Variable		Local Compound Variable

CONCENTRATIONS

		ON-COLUMN		FINAL		
Compounds		RT	EXP RT	DLT RT	RESPONSE	(ug/L) (mg/Kg)
S 5 GRO		2.250-13.750			837820	37.3923 1.870(a)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ) .

Data File: \\192.168.10.12\chem\10gcv3.i\041913b-2.b/G1-10933.d

Report Date: 04/23/2013

Sample ID: 10225292021

Client ID: 10225292021

Instrument: 10gcv3.i

ANDI G1-10933.d

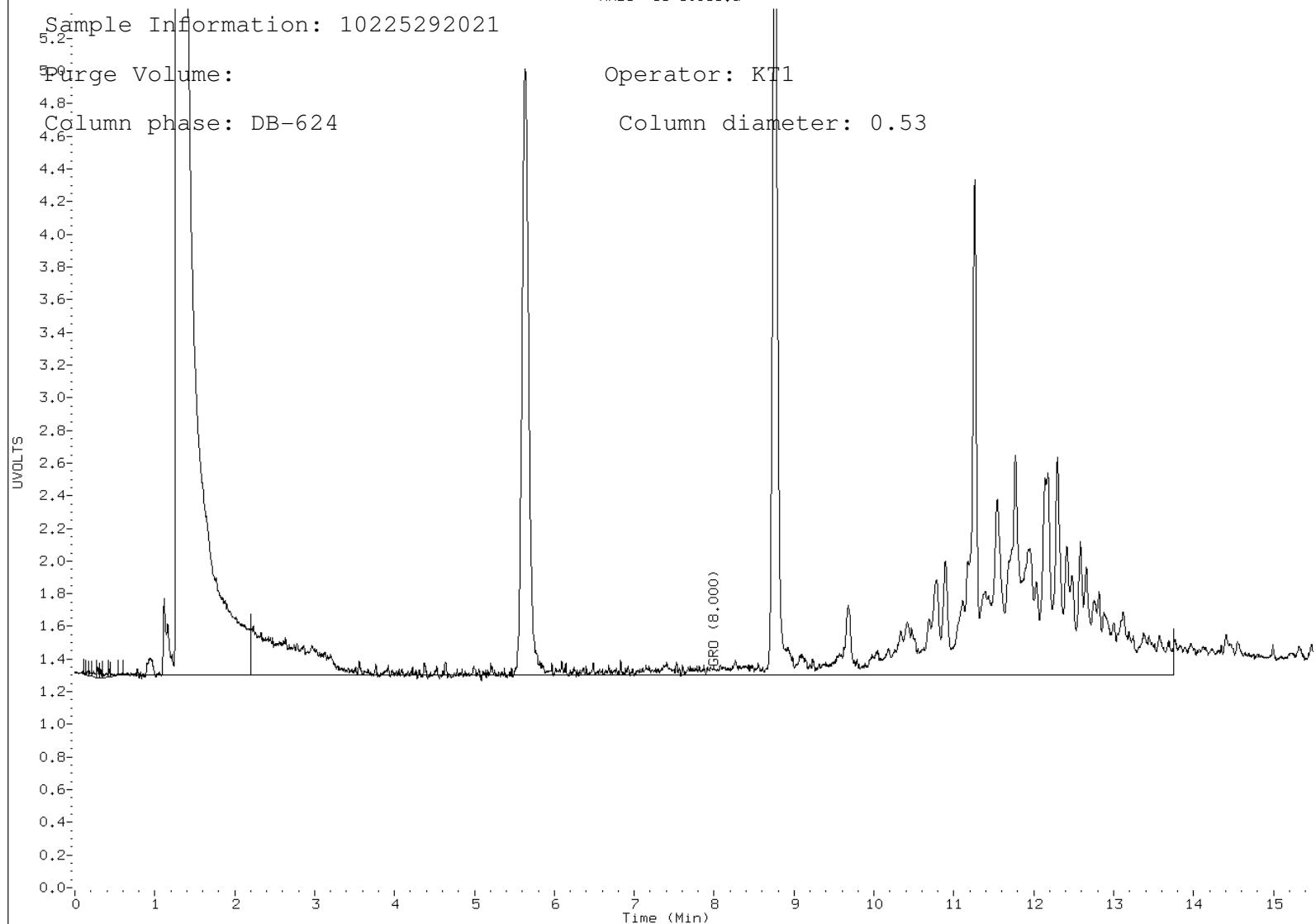
Sample Information: 10225292021

Purge Volume:

Column phase: DB-624

Operator: KT1

Column diameter: 0.53



Data File: 042113000025.D

Page 1

Report Date: 21-Apr-2013 15:57

Pace Analytical Services

WI Dept of Nat. Resources- WIDRO

Data file : \\192.168.10.12\chem\10gcs9.i\042113dro.b\042113000025.D

Lab Smp Id: 10225292022

Inj Date : 21-APR-2013 15:35

Operator : JRH Inst ID: 10gcs9.i

Smp Info : 10225292022

Misc Info : 11166

Comment : C10-C28 DRO

Method : \\192.168.10.12\chem\10gcs9.i\042113dro.b\WDRO9-032213.m

Meth Date : 21-Apr-2013 15:43 jheinecke Quant Type: ESTD

Cal Date : 22-MAR-2013 15:41 Cal File: 032213000030.D

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie Compound Sublist: dro.sub

Target Version: 4.14

Processing Host: 10VOA3

Concentration Formula: Amt * DF * Uf * Vt/(Ws * Vi*(100-M)/100) * CpndVariable

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	1.000	Volume of final extract (mL)
Ws	25.000	Weight of sample extracted (g)
Vi	1.000	Volume injected (uL)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/kg)
=====	====	=====	=====	=====	=====	=====
S 1 Diesel Range Organics	0.860-2.109			259515988	827.874	33.1
\$ 2 n-Triacontane (S)	2.189	2.179	0.010	26997613	107.636	4.30(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10gcs9.i\042113dro.b\042113000025.D

Report Date: 04/21/2013

Sample ID: 10225292022

Client ID:

Instrument: 10gcs9.i

ANDI gas chromatography 042113000025.D

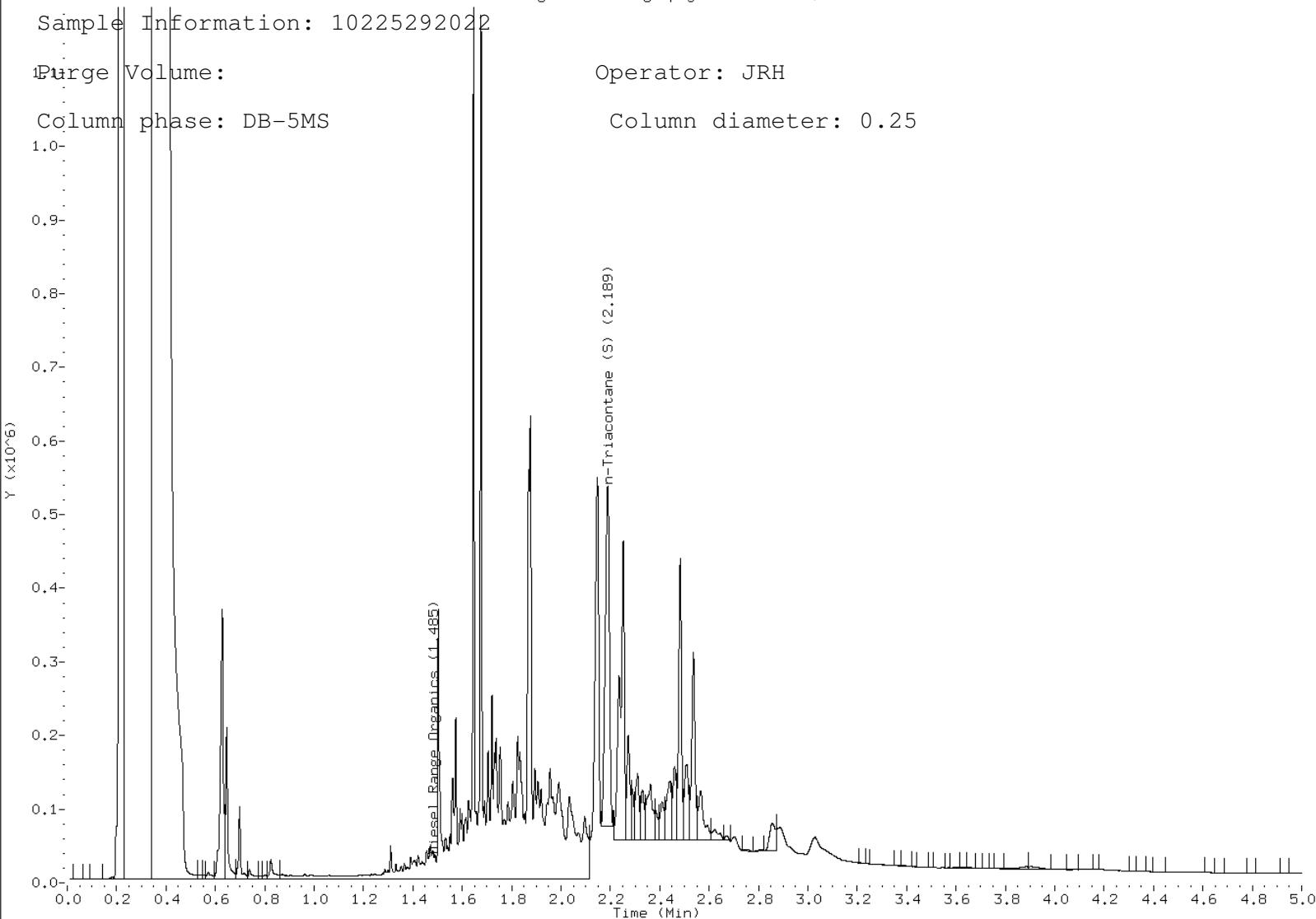
Sample Information: 10225292022

Purge Volume:

Operator: JRH

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\192.168.10.12\chem\10gcv3.i\041913b-2.b\G1-10934.d Page 1
Report Date: 23-Apr-2013 11:15

Pace Analytical Services

WIGRO GASOLINE RANGE ORGANICS

Data file : \\192.168.10.12\chem\10gcv3.i\041913b-2.b\G1-10934.d
Lab Smp Id: 10225292022 Client Smp ID: 10225292022
Inj Date : 20-APR-2013 03:38
Operator : KT1 Inst ID: 10gcv3.i
Smp Info : 10225292022
Misc Info : 10609
Comment : WIGRO GASOLINE RANGE ORGANICS
Method : \\192.168.10.12\chem\10gcv3.i\041913b-2.b\G313-GROsoil-109.m
Meth Date : 23-Apr-2013 11:14 10gcv3.i Quant Type: ESTD
Cal Date : 19-APR-2013 20:08 Cal File: G1-10911.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: SEMIVOLGCMS

Concentration Formula: Amt * DF * Uf * Vt / (Va * Ws * (100-M)/100) * CpndVariab

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	5.000	Unit correction factor
Vt	10.000	Total volume of methanol extract (mL)
Ws	10.000	Weight of the sample extracted (g)
M	0.00000	% Moisture
Va	100.000	Volume of the aliquot of methanol added(
Cpnd Variable		Local Compound Variable

CONCENTRATIONS

					ON-COLUMN	FINAL					
Compounds		RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(mg/Kg)				
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
S 5 GRO		2.250-13.750			746498	25.3351	1.267(a)				

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ) .

Data File: \\192.168.10.12\chem\10gcv3.i\041913b-2.b/G1-10934.d

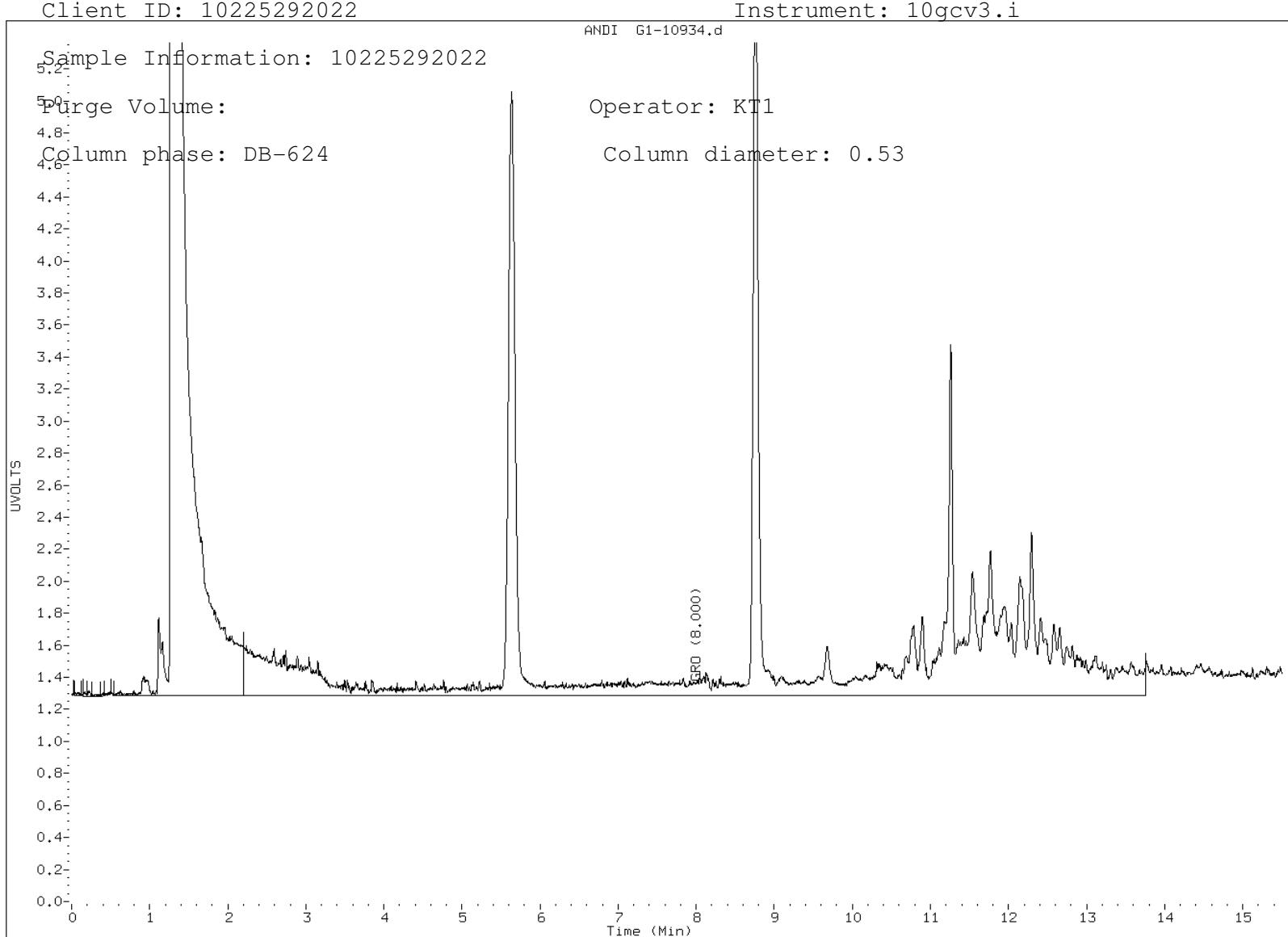
Report Date: 04/23/2013

Sample ID: 10225292022

Client ID: 10225292022

Instrument: 10gcv3.i

ANDI G1-10934.d



Data File: \\192.168.10.12\chem\10gcv3.i\041913b-2.b\G1-10922.d Page 1
Report Date: 23-Apr-2013 11:14

Pace Analytical Services

WIGRO GASOLINE RANGE ORGANICS

Data file : \\192.168.10.12\chem\10gcv3.i\041913b-2.b\G1-10922.d
Lab Smp Id: 10225292024 Client Smp ID: 10225292024
Inj Date : 19-APR-2013 23:43
Operator : KT1 Inst ID: 10gcv3.i
Smp Info : 10225292024,TB
Misc Info : 10609
Comment : WIGRO GASOLINE RANGE ORGANICS
Method : \\192.168.10.12\chem\10gcv3.i\041913b-2.b\G313-GROsoil-109.m
Meth Date : 23-Apr-2013 11:14 10gcv3.i Quant Type: ESTD
Cal Date : 19-APR-2013 20:08 Cal File: G1-10911.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: SEMIVOLGCMS

Concentration Formula: Amt * DF * Uf * Vt / (Va * Ws * (100-M)/100) * CpndVariab

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	5.000	Unit correction factor
Vt	10.000	Total volume of methanol extract (mL)
Ws	10.000	Weight of the sample extracted (g)
M	0.00000	% Moisture
Va	100.000	Volume of the aliquot of methanol added(
Cpnd	Variable	Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(mg/Kg)
=====	=====	=====	=====	=====	=====	=====
S 5 GRO				Compound Not Detected.		

Data File: \\192.168.10.12\chem\10gcv3.i\041913b-2.b/G1-10922.d

Report Date: 04/23/2013

Sample ID: 10225292024

Client ID: 10225292024

Instrument: 10gcv3.i

ANDI G1-10922.d

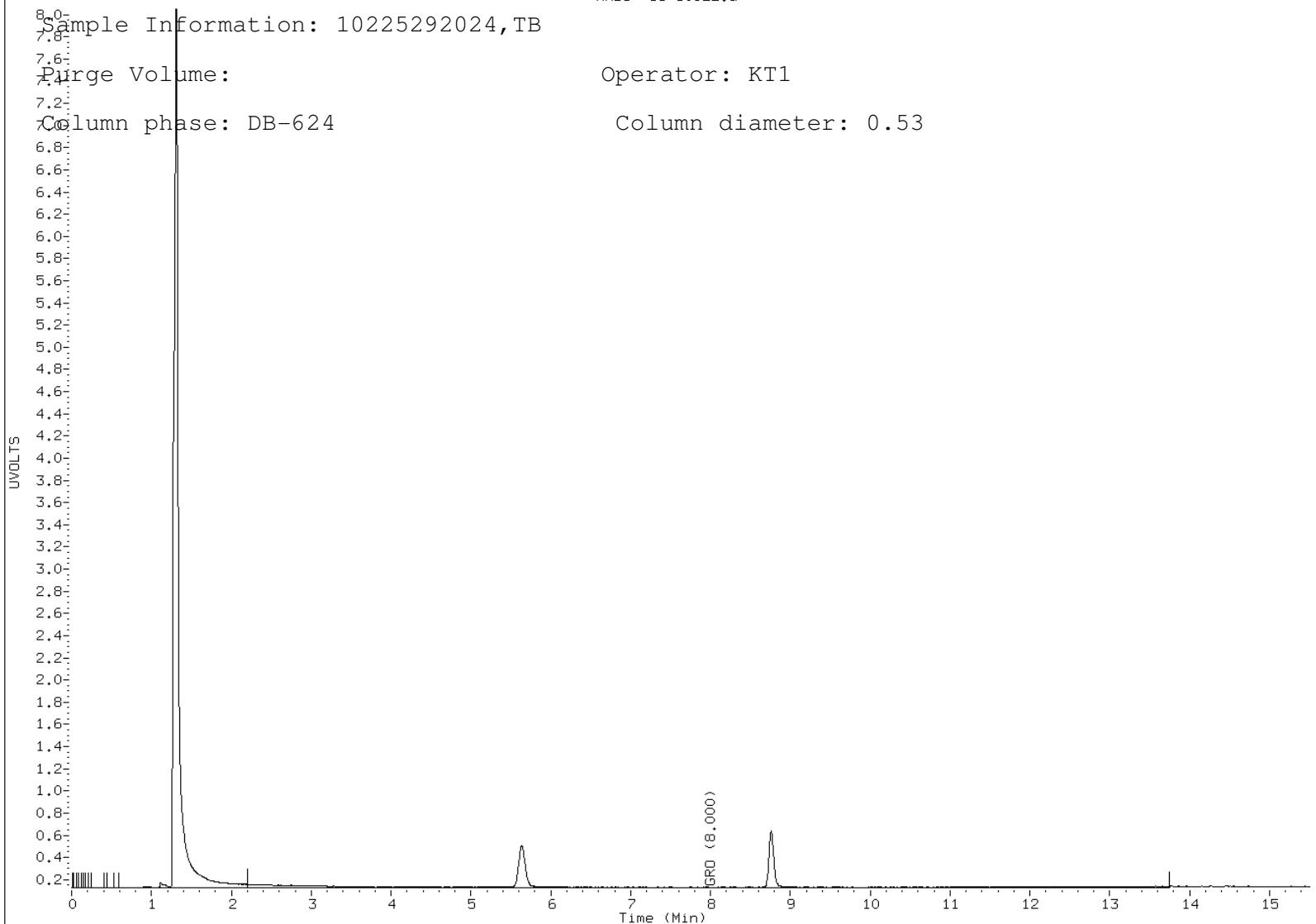
Sample Information: 10225292024, TB

Purge Volume:

Operator: KT1

Column phase: DB-624

Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv3.i\041813b-2.b\G1-10819.d Page 1
Report Date: 22-Apr-2013 12:57

Pace Analytical Services

Wisconsin GAS RANGE ORGANICS

Data file : \\192.168.10.12\chem\10gcv3.i\041813b-2.b\G1-10819.d
Lab Smp Id: 10225292025
Inj Date : 18-APR-2013 22:37
Operator : KT1 Inst ID: 10gcv3.i
Smp Info : 10225292025,TB
Misc Info : 10614
Comment : Modified WIGRO
Method : \\192.168.10.12\chem\10gcv3.i\041813b-2.b\g313-wigro-108.m
Meth Date : 22-Apr-2013 12:57 10gcv3.i Quant Type: ESTD
Cal Date : 18-APR-2013 20:01 Cal File: G1-10811.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: SEMIVOLGCMS

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds RT EXP RT DLT RT RESPONSE (ug/L) (ug/L)

===== ===== ===== ===== ===== =====

S 5 GRO Compound Not Detected.

Data File: \\192.168.10.12\chem\10gcv3.i\041813b-2.b/G1-10819.d

Report Date: 04/22/2013

Sample ID: 10225292025

Client ID:

Instrument: 10gcv3.i

ANDI G1-10819.d

Sample Information: 10225292025, TB

9.6

Purge Volume:

Operator: KT1

9.2

Column phase: DB-624

Column diameter: 0.53

8.8

8.6

8.4

8.2

8.0

7.8

7.6

7.4

7.2

7.0

6.8

6.6

6.4

6.2

6.0

5.8

5.6

5.4

5.2

5.0

4.8

4.6

4.4

4.2

4.0

3.8

3.6

3.4

3.2

3.0

2.8

2.6

2.4

2.2

2.0

1.8

1.6

1.4

STOLWU

GRO (7.975)

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Time (Min)



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a **LEGAL DOCUMENT**. All relevant fields must be completed accurately.



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a **LEGAL DOCUMENT**. All relevant fields must be completed accurately.

Section A	Section B	Section C
Required Client Information:	Required Project Information:	Invoice Information:

Company:	Short Elliott Hendrickson, Inc.	Report To:	John Kinniry	Attention:	Same
Address:	3335 Vadnais Center Drive Saint Paul, MN 55110	Copy To:	3335 Vadnais Center Drive, Saint Paul, MN 55110	Company Name:	
Email To:	ikinniry@sehinc.com	Purchase Order No.		Address:	Regulatory Agency
Phone:	651-490-2198	Client Project ID:	MCES 123840	Pace Quote Reference:	
Requested Due Date/TAT:	Normal	Container Order Number:		Pace Project Manager:	Davy, Carol
				Pace Profile #:	Minnesota
				Requested Analytics Field Filtered (YN)	

Page: 2 Of 2

<i>Pace Analytical</i>	Document Name: Sample Condition Upon Receipt Form	Document Revised: 28Jan2013 Page 1 of 1
	Document No.: F-MN-L-213-rev.06	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt	Client Name: <i>SBH</i>	Project #:	WO# : 10225292
Courier:	<input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Pace <input type="checkbox"/> Other: _____	 10225292	
Tracking Number:	_____		
Custody Seal on Cooler/Box Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Seals Intact?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Packing Material:	<input checked="" type="checkbox"/> Bubble Wrap <input type="checkbox"/> Bubble Bags <input type="checkbox"/> None <input type="checkbox"/> Other: _____	Temp Blank? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Thermom. Used:	<input checked="" type="checkbox"/> B88A912167504 <input type="checkbox"/> 80512447 <input type="checkbox"/> 72337080	Type of Ice:	<input type="checkbox"/> Wet <input type="checkbox"/> Blue <input type="checkbox"/> None <input type="checkbox"/> Samples on ice, cooling process has begun
Cooler Temp Read (°C):	<i>2.1, 1.8, 3.4, 2.7</i>	Cooler Temp Corrected (°C):	<i>2.1, 1.8, 3.4, 2.7</i>
Temp should be above freezing to 6°C	Correction Factor: <i>True</i>	Biological Tissue Frozen? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Comments: <i>12/12/13</i>			
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.	
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<i>WT/SL</i>	
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO ₃ /1 <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl	
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sample # <i>GP-15W, 4-18W, 3-9W, 5-19W, 7-17W, 9-5W</i>	
Exceptions: VOA Coliform, TOC, Oil and Grease, WI-DRO (Water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lot # of added preservative: <i>WT</i>	
Headspace in VOA Vials (>6mm)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed: <i>WT</i>	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. Trip Blank: <i>WT</i>	
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15. 4 WT TB's 2 soil TB's 2 love headspeal	
Pace Trip Blank Lot # (If purchased): <i>032513-1 WT</i>			

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____
Comments/Resolution: _____

Project Manager Review: *0AD*

Date: *4-12-13*

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

April 16, 2013

John Kinny
SEH
3535 Vadnais Center Drive
Saint Paul, MN 55110

RE: Project: MCES 123840
Pace Project No.: 10224318

Dear John Kinny:

Enclosed are the analytical results for sample(s) received by the laboratory on April 03, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Carol Davy

carol.davy@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCES 123840
Pace Project No.: 10224318

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace

Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: MCES 123840
 Pace Project No.: 10224318

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10224318001	HA-16-2.5	Solid	04/02/13 11:35	04/03/13 16:45
10224318003	HA-17-2.5	Solid	04/02/13 10:20	04/03/13 16:45
10224318004	HA-17-12	Solid	04/02/13 10:40	04/03/13 16:45
10224318005	HA-18-3	Solid	04/02/13 09:15	04/03/13 16:45
10224318006	HA-18-8	Solid	04/02/13 09:25	04/03/13 16:45
10224318008	Trip Blank	Solid	04/02/13 00:00	04/03/13 16:45

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SAMPLE ANALYTE COUNT

Project: MCES 123840
Pace Project No.: 10224318

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10224318001	HA-16-2.5	EPA 8082	KL1	11
		WI MOD DRO	MT	2
		WI MOD GRO	KT1	2
		EPA 6010	IP	7
		EPA 7471	TEM	1
		ASTM D2974	JDL	1
		EPA 8270	JLR	72
		EPA 8260	DJT	70
10224318003	HA-17-2.5	WI MOD DRO	MT	2
		WI MOD GRO	KT1	2
		EPA 6010	IP	7
		EPA 7471	TEM	1
		ASTM D2974	JDL	1
		EPA 8270	JLR	72
		EPA 8260	DJT	70
		WI MOD DRO	MT	2
10224318004	HA-17-12	WI MOD GRO	KT1	2
		EPA 6010	IP	7
		EPA 7471	TEM	1
		ASTM D2974	JDL	1
		EPA 8270	JLR	72
		EPA 8260	DJT	70
		WI MOD DRO	MT	2
		WI MOD GRO	KT1	2
10224318005	HA-18-3	EPA 6010	IP	7
		EPA 7471	TEM	1
		ASTM D2974	JDL	1
		EPA 8270	JLR	72
		EPA 8260	DJT	70
		EPA 8082	KL1	11
		WI MOD DRO	MT	2
		WI MOD GRO	KT1	2
10224318006	HA-18-8	EPA 6010	IP	7
		EPA 7471	TEM	1
		ASTM D2974	JDL	1
		EPA 8270	JLR	72
		EPA 8082	KL1	11
		WI MOD DRO	MT	2
		WI MOD GRO	KT1	2
		EPA 6010	IP	7

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SAMPLE ANALYTE COUNT

Project: MCES 123840
Pace Project No.: 10224318

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8260	DJT	70
10224318008	Trip Blank	EPA 8260	DJT	70

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10224318

Method: **EPA 8082**
Description: 8082 GCS PCB
Client: SEH_MN
Date: April 16, 2013

General Information:

3 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: OEXT/21351

- CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
- HA-18-3 (Lab ID: 10224318005)
 - Decachlorobiphenyl (S)
 - HA-18-8 (Lab ID: 10224318006)
 - Decachlorobiphenyl (S)

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10224318

Method: WI MOD DRO
Description: WIDRO GCS
Client: SEH_MN
Date: April 16, 2013

General Information:

5 samples were analyzed for WI MOD DRO. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with WI MOD DRO with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/21308

T6: High boiling point hydrocarbons are present in the sample.

- HA-16-2.5 (Lab ID: 10224318001)
 - Diesel Range Organics
- HA-18-3 (Lab ID: 10224318005)
 - Diesel Range Organics
- HA-18-8 (Lab ID: 10224318006)
 - Diesel Range Organics

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10224318

Method: WI MOD GRO
Description: WIGRO GCV
Client: SEH_MN
Date: April 16, 2013

General Information:

5 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with TPH GRO/PVOC WI ext. with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: GCV/10554

1M: Sample absorbed all original methanol in vial. An additional 10 mLs of methanol were added in order to run sample.

- HA-18-8 (Lab ID: 10224318006)
- a,a,a-Trifluorotoluene (S)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10224318

Method: EPA 6010
Description: 6010 MET ICP
Client: SEH_MN
Date: April 16, 2013

General Information:

5 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/38351

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10224263002,10224313001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1403428)
 - Barium
- MSD (Lab ID: 1403427)
 - Barium
 - Lead

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10224318

Method: EPA 7471
Description: 7471 Mercury
Client: SEH_MN
Date: April 16, 2013

General Information:

5 samples were analyzed for EPA 7471. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7471 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MERP/8213

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10224195001,10224318006

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1403429)
- Mercury

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10224318

Method: **EPA 8270**
Description: 8270 MSSV
Client: SEH_MN
Date: April 16, 2013

General Information:

5 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

- HA-16-2.5 (Lab ID: 10224318001)
- HA-17-12 (Lab ID: 10224318004)
- HA-17-2.5 (Lab ID: 10224318003)
- HA-18-3 (Lab ID: 10224318005)
- HA-18-8 (Lab ID: 10224318006)

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

QC Batch: OEXT/21298

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- BLANK (Lab ID: 1404728)
 - Benzidine
- HA-16-2.5 (Lab ID: 10224318001)
 - Benzidine
- HA-17-12 (Lab ID: 10224318004)
 - Benzidine
- HA-17-2.5 (Lab ID: 10224318003)
 - Benzidine
- HA-18-3 (Lab ID: 10224318005)
 - Benzidine
- HA-18-8 (Lab ID: 10224318006)
 - Benzidine
- LCS (Lab ID: 1404729)
 - Benzidine

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: OEXT/21298

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- BLANK (Lab ID: 1404728)
 - 4-Chloroaniline
 - Benzidine
- HA-16-2.5 (Lab ID: 10224318001)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10224318

Method: **EPA 8270**
Description: 8270 MSSV
Client: SEH_MN
Date: April 16, 2013

QC Batch: OEXT/21298

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- 3&4-Methylphenol
- 4-Chloroaniline
- Benzidine
- HA-17-12 (Lab ID: 10224318004)
 - 4-Chloroaniline
 - Benzidine
- HA-17-2.5 (Lab ID: 10224318003)
 - 4-Chloroaniline
 - Benzidine
- HA-18-3 (Lab ID: 10224318005)
 - 4-Chloroaniline
 - Benzidine
- HA-18-8 (Lab ID: 10224318006)
 - 4-Chloroaniline
 - Benzidine
- LCS (Lab ID: 1404729)
 - 4-Chloroaniline
 - Benzidine
- MS (Lab ID: 1404730)
 - 4-Chloroaniline
 - Benzidine
- MSD (Lab ID: 1404731)
 - 4-Chloroaniline
 - Benzidine

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/21298

S0: Surrogate recovery outside laboratory control limits.

- HA-17-2.5 (Lab ID: 10224318003)
- 2,4,6-Tribromophenol (S)

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: OEXT/21298

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1404729)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10224318

Method: EPA 8270
Description: 8270 MSSV
Client: SEH_MN
Date: April 16, 2013

QC Batch: OEXT/21298

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- Benzidine
- Benzyl alcohol

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/21298

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10224318001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1404730)
 - Benzidine
- MSD (Lab ID: 1404731)
 - Benzidine

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1404730)
 - 1,2-Dichlorobenzene
 - 1,4-Dichlorobenzene
 - 4-Chloroaniline
 - Hexachlorocyclopentadiene
- MSD (Lab ID: 1404731)
 - 4-Chloroaniline

R1: RPD value was outside control limits.

- MSD (Lab ID: 1404731)
 - Benzo(b)fluoranthene

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MCES 123840
Pace Project No.: 10224318

Method: **EPA 8260**
Description: 8260 MSV 5030 Med Level
Client: SEH_MN
Date: April 16, 2013

General Information:

6 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/23292

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10224429001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1404562)
 - 1,2,4-Trimethylbenzene
- MSD (Lab ID: 1404563)
 - 1,2,4-Trimethylbenzene

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10224318

Sample: HA-16-2.5 Lab ID: 10224318001 Collected: 04/02/13 11:35 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3550								
PCB-1016 (Aroclor 1016)	ND mg/kg	0.034	0.012	1	04/11/13 13:25	04/16/13 12:40	12674-11-2		
PCB-1221 (Aroclor 1221)	ND mg/kg	0.034	0.013	1	04/11/13 13:25	04/16/13 12:40	11104-28-2		
PCB-1232 (Aroclor 1232)	ND mg/kg	0.034	0.014	1	04/11/13 13:25	04/16/13 12:40	11141-16-5		
PCB-1242 (Aroclor 1242)	ND mg/kg	0.034	0.0082	1	04/11/13 13:25	04/16/13 12:40	53469-21-9		
PCB-1248 (Aroclor 1248)	ND mg/kg	0.034	0.0072	1	04/11/13 13:25	04/16/13 12:40	12672-29-6		
PCB-1254 (Aroclor 1254)	ND mg/kg	0.034	0.0093	1	04/11/13 13:25	04/16/13 12:40	11097-69-1		
PCB-1260 (Aroclor 1260)	ND mg/kg	0.034	0.012	1	04/11/13 13:25	04/16/13 12:40	11096-82-5		
PCB-1262 (Aroclor 1262)	ND mg/kg	0.034	0.0041	1	04/11/13 13:25	04/16/13 12:40	37324-23-5		
PCB-1268 (Aroclor 1268)	ND mg/kg	0.034	0.0062	1	04/11/13 13:25	04/16/13 12:40	11100-14-4		
Surrogates									
Tetrachloro-m-xylene (S)	80 %	38-125		1	04/11/13 13:25	04/16/13 12:40	877-09-8		
Decachlorobiphenyl (S)	100 %	35-126		1	04/11/13 13:25	04/16/13 12:40	2051-24-3		
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	21.9 mg/kg	8.8	0.97	1	04/08/13 06:52	04/09/13 02:24			T6
Surrogates									
n-Triacontane (S)	73 %	50-150		1	04/08/13 06:52	04/09/13 02:24			
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	ND mg/kg	5.4	0.53	1	04/04/13 11:01	04/04/13 17:18			
Surrogates									
a,a,a-Trifluorotoluene (S)	98 %	80-125		1	04/04/13 11:01	04/04/13 17:18	98-08-8		
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	9.8 mg/kg	0.93	0.15	1	04/05/13 09:37	04/08/13 16:19	7440-38-2		
Barium	35.1 mg/kg	0.46	0.027	1	04/05/13 09:37	04/08/13 16:19	7440-39-3		
Cadmium	ND mg/kg	0.14	0.070	1	04/05/13 09:37	04/08/13 16:19	7440-43-9		
Chromium	6.7 mg/kg	0.46	0.070	1	04/05/13 09:37	04/08/13 16:19	7440-47-3		
Lead	2.5 mg/kg	0.93	0.067	1	04/05/13 09:37	04/08/13 16:19	7439-92-1		
Selenium	ND mg/kg	0.70	0.23	1	04/05/13 09:37	04/08/13 16:19	7782-49-2		
Silver	ND mg/kg	0.46	0.032	1	04/05/13 09:37	04/08/13 16:19	7440-22-4		
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg	0.019	0.0058	1	04/05/13 08:09	04/08/13 13:31	7439-97-6		
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	3.7 %	0.10	0.10	1			04/04/13 00:00		
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
Acenaphthene	ND mg/kg	0.34	0.041	1	04/05/13 14:09	04/08/13 13:32	83-32-9		
Acenaphthylene	ND mg/kg	0.34	0.040	1	04/05/13 14:09	04/08/13 13:32	208-96-8		
Anthracene	ND mg/kg	0.34	0.044	1	04/05/13 14:09	04/08/13 13:32	120-12-7		
Benzidine	ND mg/kg	1.7	0.83	1	04/05/13 14:09	04/08/13 13:32	92-87-5		CL,L2, M0,SS
Benzo(a)anthracene	0.41 mg/kg	0.34	0.048	1	04/05/13 14:09	04/08/13 13:32	56-55-3		

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10224318

Sample: HA-16-2.5 Lab ID: 10224318001 Collected: 04/02/13 11:35 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3550							
Benzo(a)pyrene	0.68 mg/kg		0.34	0.049	1	04/05/13 14:09	04/08/13 13:32	50-32-8	
Benzo(b)fluoranthene	0.86 mg/kg		0.34	0.049	1	04/05/13 14:09	04/08/13 13:32	205-99-2	R1
Benzo(g,h,i)perylene	0.55 mg/kg		0.34	0.052	1	04/05/13 14:09	04/08/13 13:32	191-24-2	
Benzo(k)fluoranthene	0.35 mg/kg		0.34	0.048	1	04/05/13 14:09	04/08/13 13:32	207-08-9	
Benzoic acid	ND mg/kg		1.8	0.48	1	04/05/13 14:09	04/08/13 13:32	65-85-0	
Benzyl alcohol	ND mg/kg		0.34	0.051	1	04/05/13 14:09	04/08/13 13:32	100-51-6	L2
4-Bromophenylphenyl ether	ND mg/kg		0.34	0.052	1	04/05/13 14:09	04/08/13 13:32	101-55-3	
Butylbenzylphthalate	ND mg/kg		0.34	0.047	1	04/05/13 14:09	04/08/13 13:32	85-68-7	
4-Chloro-3-methylphenol	ND mg/kg		0.34	0.040	1	04/05/13 14:09	04/08/13 13:32	59-50-7	
4-Chloroaniline	ND mg/kg		0.34	0.073	1	04/05/13 14:09	04/08/13 13:32	106-47-8	CL,M1
bis(2-Chloroethoxy)methane	ND mg/kg		0.34	0.058	1	04/05/13 14:09	04/08/13 13:32	111-91-1	
bis(2-Chloroethyl) ether	ND mg/kg		0.34	0.070	1	04/05/13 14:09	04/08/13 13:32	111-44-4	
bis(2-Chloroisopropyl) ether	ND mg/kg		0.34	0.082	1	04/05/13 14:09	04/08/13 13:32	108-60-1	
2-Chloronaphthalene	ND mg/kg		0.34	0.041	1	04/05/13 14:09	04/08/13 13:32	91-58-7	
2-Chlorophenol	ND mg/kg		0.34	0.075	1	04/05/13 14:09	04/08/13 13:32	95-57-8	
4-Chlorophenylphenyl ether	ND mg/kg		0.34	0.046	1	04/05/13 14:09	04/08/13 13:32	7005-72-3	
Chrysene	0.45 mg/kg		0.34	0.049	1	04/05/13 14:09	04/08/13 13:32	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		0.34	0.053	1	04/05/13 14:09	04/08/13 13:32	53-70-3	
Dibenzofuran	ND mg/kg		0.34	0.042	1	04/05/13 14:09	04/08/13 13:32	132-64-9	
1,2-Dichlorobenzene	ND mg/kg		0.34	0.074	1	04/05/13 14:09	04/08/13 13:32	95-50-1	M1
1,3-Dichlorobenzene	ND mg/kg		0.34	0.078	1	04/05/13 14:09	04/08/13 13:32	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.34	0.073	1	04/05/13 14:09	04/08/13 13:32	106-46-7	M1
3,3'-Dichlorobenzidine	ND mg/kg		0.34	0.17	1	04/05/13 14:09	04/08/13 13:32	91-94-1	
2,4-Dichlorophenol	ND mg/kg		0.34	0.051	1	04/05/13 14:09	04/08/13 13:32	120-83-2	
Diethylphthalate	ND mg/kg		0.34	0.045	1	04/05/13 14:09	04/08/13 13:32	84-66-2	
2,4-Dimethylphenol	ND mg/kg		0.34	0.056	1	04/05/13 14:09	04/08/13 13:32	105-67-9	
Dimethylphthalate	ND mg/kg		0.34	0.048	1	04/05/13 14:09	04/08/13 13:32	131-11-3	
Di-n-butylphthalate	ND mg/kg		0.34	0.035	1	04/05/13 14:09	04/08/13 13:32	84-74-2	
4,6-Dinitro-2-methylphenol	ND mg/kg		1.8	0.29	1	04/05/13 14:09	04/08/13 13:32	534-52-1	
2,4-Dinitrophenol	ND mg/kg		0.34	0.049	1	04/05/13 14:09	04/08/13 13:32	51-28-5	
2,4-Dinitrotoluene	ND mg/kg		0.34	0.057	1	04/05/13 14:09	04/08/13 13:32	121-14-2	
2,6-Dinitrotoluene	ND mg/kg		0.34	0.048	1	04/05/13 14:09	04/08/13 13:32	606-20-2	
Di-n-octylphthalate	ND mg/kg		0.34	0.050	1	04/05/13 14:09	04/08/13 13:32	117-84-0	
bis(2-Ethylhexyl)phthalate	ND mg/kg		0.34	0.080	1	04/05/13 14:09	04/08/13 13:32	117-81-7	
Fluoranthene	0.36 mg/kg		0.34	0.042	1	04/05/13 14:09	04/08/13 13:32	206-44-0	
Fluorene	ND mg/kg		0.34	0.044	1	04/05/13 14:09	04/08/13 13:32	86-73-7	
Hexachloro-1,3-butadiene	ND mg/kg		0.34	0.085	1	04/05/13 14:09	04/08/13 13:32	87-68-3	
Hexachlorobenzene	ND mg/kg		0.34	0.048	1	04/05/13 14:09	04/08/13 13:32	118-74-1	
Hexachlorocyclopentadiene	ND mg/kg		0.34	0.17	1	04/05/13 14:09	04/08/13 13:32	77-47-4	M1
Hexachloroethane	ND mg/kg		0.34	0.081	1	04/05/13 14:09	04/08/13 13:32	67-72-1	
Indeno(1,2,3-cd)pyrene	0.43 mg/kg		0.34	0.050	1	04/05/13 14:09	04/08/13 13:32	193-39-5	
Isophorone	ND mg/kg		0.34	0.041	1	04/05/13 14:09	04/08/13 13:32	78-59-1	
2-Methylnaphthalene	ND mg/kg		0.34	0.051	1	04/05/13 14:09	04/08/13 13:32	91-57-6	
2-Methylphenol(o-Cresol)	ND mg/kg		0.34	0.052	1	04/05/13 14:09	04/08/13 13:32	95-48-7	
3&4-Methylphenol	ND mg/kg		0.69	0.046	1	04/05/13 14:09	04/08/13 13:32		CL

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10224318

Sample: HA-16-2.5 Lab ID: 10224318001 Collected: 04/02/13 11:35 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3550							
Naphthalene	ND mg/kg	0.34	0.067	1	04/05/13 14:09	04/08/13 13:32	91-20-3		
2-Nitroaniline	ND mg/kg	0.34	0.048	1	04/05/13 14:09	04/08/13 13:32	88-74-4		
3-Nitroaniline	ND mg/kg	0.34	0.067	1	04/05/13 14:09	04/08/13 13:32	99-09-2		
4-Nitroaniline	ND mg/kg	0.34	0.050	1	04/05/13 14:09	04/08/13 13:32	100-01-6		
Nitrobenzene	ND mg/kg	0.34	0.069	1	04/05/13 14:09	04/08/13 13:32	98-95-3		
2-Nitrophenol	ND mg/kg	0.34	0.057	1	04/05/13 14:09	04/08/13 13:32	88-75-5		
4-Nitrophenol	ND mg/kg	0.34	0.065	1	04/05/13 14:09	04/08/13 13:32	100-02-7		
N-Nitroso-di-n-propylamine	ND mg/kg	0.34	0.053	1	04/05/13 14:09	04/08/13 13:32	621-64-7		
N-Nitrosodiphenylamine	ND mg/kg	0.34	0.050	1	04/05/13 14:09	04/08/13 13:32	86-30-6		
Pentachlorophenol	ND mg/kg	0.70	0.35	1	04/05/13 14:09	04/08/13 13:32	87-86-5		
Phenanthrene	ND mg/kg	0.34	0.046	1	04/05/13 14:09	04/08/13 13:32	85-01-8		
Phenol	ND mg/kg	0.34	0.062	1	04/05/13 14:09	04/08/13 13:32	108-95-2		
Pyrene	0.47 mg/kg	0.34	0.048	1	04/05/13 14:09	04/08/13 13:32	129-00-0		
1,2,4-Trichlorobenzene	ND mg/kg	0.34	0.071	1	04/05/13 14:09	04/08/13 13:32	120-82-1		
2,4,5-Trichlorophenol	ND mg/kg	0.34	0.059	1	04/05/13 14:09	04/08/13 13:32	95-95-4		
2,4,6-Trichlorophenol	ND mg/kg	0.34	0.051	1	04/05/13 14:09	04/08/13 13:32	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	38 %	30-127		1	04/05/13 14:09	04/08/13 13:32	4165-60-0		
2-Fluorobiphenyl (S)	53 %	42-125		1	04/05/13 14:09	04/08/13 13:32	321-60-8		
Terphenyl-d14 (S)	63 %	51-125		1	04/05/13 14:09	04/08/13 13:32	1718-51-0		
Phenol-d6 (S)	45 %	30-125		1	04/05/13 14:09	04/08/13 13:32	13127-88-3		
2-Fluorophenol (S)	40 %	30-127		1	04/05/13 14:09	04/08/13 13:32	367-12-4		
2,4,6-Tribromophenol (S)	59 %	46-125		1	04/05/13 14:09	04/08/13 13:32	118-79-6		
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND mg/kg	1.1	0.53	1	04/05/13 13:45	04/07/13 20:15	67-64-1		
Allyl chloride	ND mg/kg	0.21	0.044	1	04/05/13 13:45	04/07/13 20:15	107-05-1		
Benzene	ND mg/kg	0.021	0.0050	1	04/05/13 13:45	04/07/13 20:15	71-43-2		
Bromobenzene	ND mg/kg	0.053	0.0060	1	04/05/13 13:45	04/07/13 20:15	108-86-1		
Bromochloromethane	ND mg/kg	0.053	0.018	1	04/05/13 13:45	04/07/13 20:15	74-97-5		
Bromodichloromethane	ND mg/kg	0.053	0.0084	1	04/05/13 13:45	04/07/13 20:15	75-27-4		
Bromoform	ND mg/kg	0.21	0.0099	1	04/05/13 13:45	04/07/13 20:15	75-25-2		
Bromomethane	ND mg/kg	0.53	0.036	1	04/05/13 13:45	04/07/13 20:15	74-83-9		
2-Butanone (MEK)	ND mg/kg	0.27	0.13	1	04/05/13 13:45	04/07/13 20:15	78-93-3		
n-Butylbenzene	ND mg/kg	0.053	0.0070	1	04/05/13 13:45	04/07/13 20:15	104-51-8		
sec-Butylbenzene	ND mg/kg	0.053	0.0045	1	04/05/13 13:45	04/07/13 20:15	135-98-8		
tert-Butylbenzene	ND mg/kg	0.053	0.0055	1	04/05/13 13:45	04/07/13 20:15	98-06-6		
Carbon tetrachloride	ND mg/kg	0.053	0.010	1	04/05/13 13:45	04/07/13 20:15	56-23-5		
Chlorobenzene	ND mg/kg	0.053	0.0061	1	04/05/13 13:45	04/07/13 20:15	108-90-7		
Chloroethane	ND mg/kg	0.53	0.044	1	04/05/13 13:45	04/07/13 20:15	75-00-3		
Chloroform	ND mg/kg	0.053	0.0052	1	04/05/13 13:45	04/07/13 20:15	67-66-3		
Chloromethane	ND mg/kg	0.21	0.050	1	04/05/13 13:45	04/07/13 20:15	74-87-3		
2-Chlorotoluene	ND mg/kg	0.053	0.0071	1	04/05/13 13:45	04/07/13 20:15	95-49-8		
4-Chlorotoluene	ND mg/kg	0.053	0.0068	1	04/05/13 13:45	04/07/13 20:15	106-43-4		
1,2-Dibromo-3-chloropropane	ND mg/kg	0.21	0.048	1	04/05/13 13:45	04/07/13 20:15	96-12-8		

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10224318

Sample: HA-16-2.5 Lab ID: 10224318001 Collected: 04/02/13 11:35 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Dibromochloromethane	ND mg/kg		0.053	0.0045	1	04/05/13 13:45	04/07/13 20:15	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.053	0.0090	1	04/05/13 13:45	04/07/13 20:15	106-93-4	
Dibromomethane	ND mg/kg		0.053	0.013	1	04/05/13 13:45	04/07/13 20:15	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.053	0.0062	1	04/05/13 13:45	04/07/13 20:15	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.053	0.0043	1	04/05/13 13:45	04/07/13 20:15	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.053	0.0060	1	04/05/13 13:45	04/07/13 20:15	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.053	0.013	1	04/05/13 13:45	04/07/13 20:15	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.053	0.027	1	04/05/13 13:45	04/07/13 20:15	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.053	0.0070	1	04/05/13 13:45	04/07/13 20:15	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.053	0.0078	1	04/05/13 13:45	04/07/13 20:15	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.053	0.0092	1	04/05/13 13:45	04/07/13 20:15	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.053	0.0099	1	04/05/13 13:45	04/07/13 20:15	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.53	0.034	1	04/05/13 13:45	04/07/13 20:15	75-43-4	
1,2-Dichloropropane	ND mg/kg		0.053	0.027	1	04/05/13 13:45	04/07/13 20:15	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.053	0.0075	1	04/05/13 13:45	04/07/13 20:15	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.21	0.0076	1	04/05/13 13:45	04/07/13 20:15	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.053	0.0074	1	04/05/13 13:45	04/07/13 20:15	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.053	0.0083	1	04/05/13 13:45	04/07/13 20:15	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.053	0.0090	1	04/05/13 13:45	04/07/13 20:15	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.21	0.046	1	04/05/13 13:45	04/07/13 20:15	60-29-7	
Ethylbenzene	ND mg/kg		0.053	0.0045	1	04/05/13 13:45	04/07/13 20:15	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.27	0.023	1	04/05/13 13:45	04/07/13 20:15	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.053	0.0064	1	04/05/13 13:45	04/07/13 20:15	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.053	0.0063	1	04/05/13 13:45	04/07/13 20:15	99-87-6	
Methylene Chloride	ND mg/kg		0.21	0.11	1	04/05/13 13:45	04/07/13 20:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.27	0.13	1	04/05/13 13:45	04/07/13 20:15	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.053	0.0096	1	04/05/13 13:45	04/07/13 20:15	1634-04-4	
Naphthalene	ND mg/kg		0.21	0.0061	1	04/05/13 13:45	04/07/13 20:15	91-20-3	
n-Propylbenzene	ND mg/kg		0.053	0.0054	1	04/05/13 13:45	04/07/13 20:15	103-65-1	
Styrene	ND mg/kg		0.053	0.027	1	04/05/13 13:45	04/07/13 20:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.053	0.027	1	04/05/13 13:45	04/07/13 20:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.053	0.0099	1	04/05/13 13:45	04/07/13 20:15	79-34-5	
Tetrachloroethene	ND mg/kg		0.053	0.0076	1	04/05/13 13:45	04/07/13 20:15	127-18-4	
Tetrahydrofuran	ND mg/kg		2.1	0.15	1	04/05/13 13:45	04/07/13 20:15	109-99-9	
Toluene	ND mg/kg		0.053	0.0080	1	04/05/13 13:45	04/07/13 20:15	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.053	0.0080	1	04/05/13 13:45	04/07/13 20:15	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.053	0.010	1	04/05/13 13:45	04/07/13 20:15	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.053	0.0073	1	04/05/13 13:45	04/07/13 20:15	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.053	0.013	1	04/05/13 13:45	04/07/13 20:15	79-00-5	
Trichloroethene	ND mg/kg		0.053	0.0093	1	04/05/13 13:45	04/07/13 20:15	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.21	0.019	1	04/05/13 13:45	04/07/13 20:15	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.21	0.014	1	04/05/13 13:45	04/07/13 20:15	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.053	0.022	1	04/05/13 13:45	04/07/13 20:15	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.053	0.0064	1	04/05/13 13:45	04/07/13 20:15	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.053	0.0063	1	04/05/13 13:45	04/07/13 20:15	108-67-8	

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ANALYTICAL RESULTS

Project: MCES 123840
Pace Project No.: 10224318

Sample: HA-16-2.5 Lab ID: 10224318001 Collected: 04/02/13 11:35 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Vinyl chloride	ND	mg/kg	0.021	0.0080	1	04/05/13 13:45	04/07/13 20:15	75-01-4	
Xylene (Total)	ND	mg/kg	0.16	0.018	1	04/05/13 13:45	04/07/13 20:15	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103 %		57-150		1	04/05/13 13:45	04/07/13 20:15	17060-07-0	
Toluene-d8 (S)	98 %		70-136		1	04/05/13 13:45	04/07/13 20:15	2037-26-5	
4-Bromofluorobenzene (S)	100 %		67-138		1	04/05/13 13:45	04/07/13 20:15	460-00-4	

ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10224318

Sample: HA-17-2.5 Lab ID: 10224318003 Collected: 04/02/13 10:20 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	ND mg/kg		8.6	0.94	1	04/08/13 06:52	04/09/13 02:17		
Surrogates									
n-Triacontane (S)	65 %		50-150		1	04/08/13 06:52	04/09/13 02:17		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	ND mg/kg		5.5	0.54	1	04/04/13 11:01	04/04/13 17:38		
Surrogates									
a,a,a-Trifluorotoluene (S)	99 %		80-125		1	04/04/13 11:01	04/04/13 17:38	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	10.1 mg/kg		0.88	0.15	1	04/05/13 09:37	04/08/13 16:25	7440-38-2	
Barium	35.8 mg/kg		0.44	0.025	1	04/05/13 09:37	04/08/13 16:25	7440-39-3	
Cadmium	ND mg/kg		0.13	0.066	1	04/05/13 09:37	04/08/13 16:25	7440-43-9	
Chromium	6.5 mg/kg		0.44	0.067	1	04/05/13 09:37	04/08/13 16:25	7440-47-3	
Lead	2.8 mg/kg		0.88	0.063	1	04/05/13 09:37	04/08/13 16:25	7439-92-1	
Selenium	ND mg/kg		0.66	0.22	1	04/05/13 09:37	04/08/13 16:25	7782-49-2	
Silver	ND mg/kg		0.44	0.030	1	04/05/13 09:37	04/08/13 16:25	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.021	0.0063	1	04/05/13 08:09	04/08/13 13:33	7439-97-6	
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	7.1 %		0.10	0.10	1		04/04/13 00:00		
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
Acenaphthene	ND mg/kg		0.35	0.042	1	04/05/13 14:09	04/07/13 19:55	83-32-9	
Acenaphthylene	ND mg/kg		0.35	0.041	1	04/05/13 14:09	04/07/13 19:55	208-96-8	
Anthracene	ND mg/kg		0.35	0.045	1	04/05/13 14:09	04/07/13 19:55	120-12-7	
Benzidine	ND mg/kg		1.7	0.86	1	04/05/13 14:09	04/07/13 19:55	92-87-5	L2,SS
Benzo(a)anthracene	ND mg/kg		0.35	0.050	1	04/05/13 14:09	04/07/13 19:55	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.35	0.051	1	04/05/13 14:09	04/07/13 19:55	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.35	0.051	1	04/05/13 14:09	04/07/13 19:55	205-99-2	
Benzo(g,h,i)perylene	ND mg/kg		0.35	0.054	1	04/05/13 14:09	04/07/13 19:55	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.35	0.049	1	04/05/13 14:09	04/07/13 19:55	207-08-9	
Benzoic acid	ND mg/kg		1.8	0.49	1	04/05/13 14:09	04/07/13 19:55	65-85-0	
Benzyl alcohol	ND mg/kg		0.35	0.052	1	04/05/13 14:09	04/07/13 19:55	100-51-6	L2
4-Bromophenylphenyl ether	ND mg/kg		0.35	0.054	1	04/05/13 14:09	04/07/13 19:55	101-55-3	
Butylbenzylphthalate	ND mg/kg		0.35	0.048	1	04/05/13 14:09	04/07/13 19:55	85-68-7	
4-Chloro-3-methylphenol	ND mg/kg		0.35	0.042	1	04/05/13 14:09	04/07/13 19:55	59-50-7	
4-Chloroaniline	ND mg/kg		0.35	0.076	1	04/05/13 14:09	04/07/13 19:55	106-47-8	CL
bis(2-Chloroethoxy)methane	ND mg/kg		0.35	0.060	1	04/05/13 14:09	04/07/13 19:55	111-91-1	
bis(2-Chloroethyl) ether	ND mg/kg		0.35	0.073	1	04/05/13 14:09	04/07/13 19:55	111-44-4	
bis(2-Chloroisopropyl) ether	ND mg/kg		0.35	0.085	1	04/05/13 14:09	04/07/13 19:55	108-60-1	
2-Chloronaphthalene	ND mg/kg		0.35	0.043	1	04/05/13 14:09	04/07/13 19:55	91-58-7	
2-Chlorophenol	ND mg/kg		0.35	0.078	1	04/05/13 14:09	04/07/13 19:55	95-57-8	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10224318

Sample: HA-17-2.5 Lab ID: 10224318003 Collected: 04/02/13 10:20 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3550							
4-Chlorophenylphenyl ether	ND mg/kg	0.35	0.048	1	04/05/13 14:09	04/07/13 19:55	7005-72-3		
Chrysene	ND mg/kg	0.35	0.051	1	04/05/13 14:09	04/07/13 19:55	218-01-9		
Dibenz(a,h)anthracene	ND mg/kg	0.35	0.055	1	04/05/13 14:09	04/07/13 19:55	53-70-3		
Dibenzofuran	ND mg/kg	0.35	0.043	1	04/05/13 14:09	04/07/13 19:55	132-64-9		
1,2-Dichlorobenzene	ND mg/kg	0.35	0.076	1	04/05/13 14:09	04/07/13 19:55	95-50-1		
1,3-Dichlorobenzene	ND mg/kg	0.35	0.081	1	04/05/13 14:09	04/07/13 19:55	541-73-1		
1,4-Dichlorobenzene	ND mg/kg	0.35	0.075	1	04/05/13 14:09	04/07/13 19:55	106-46-7		
3,3'-Dichlorobenzidine	ND mg/kg	0.35	0.18	1	04/05/13 14:09	04/07/13 19:55	91-94-1		
2,4-Dichlorophenol	ND mg/kg	0.35	0.053	1	04/05/13 14:09	04/07/13 19:55	120-83-2		
Diethylphthalate	ND mg/kg	0.35	0.046	1	04/05/13 14:09	04/07/13 19:55	84-66-2		
2,4-Dimethylphenol	ND mg/kg	0.35	0.058	1	04/05/13 14:09	04/07/13 19:55	105-67-9		
Dimethylphthalate	ND mg/kg	0.35	0.049	1	04/05/13 14:09	04/07/13 19:55	131-11-3		
Di-n-butylphthalate	ND mg/kg	0.35	0.036	1	04/05/13 14:09	04/07/13 19:55	84-74-2		
4,6-Dinitro-2-methylphenol	ND mg/kg	1.8	0.30	1	04/05/13 14:09	04/07/13 19:55	534-52-1		
2,4-Dinitrophenol	ND mg/kg	0.35	0.051	1	04/05/13 14:09	04/07/13 19:55	51-28-5		
2,4-Dinitrotoluene	ND mg/kg	0.35	0.059	1	04/05/13 14:09	04/07/13 19:55	121-14-2		
2,6-Dinitrotoluene	ND mg/kg	0.35	0.049	1	04/05/13 14:09	04/07/13 19:55	606-20-2		
Di-n-octylphthalate	ND mg/kg	0.35	0.052	1	04/05/13 14:09	04/07/13 19:55	117-84-0		
bis(2-Ethylhexyl)phthalate	ND mg/kg	0.35	0.083	1	04/05/13 14:09	04/07/13 19:55	117-81-7		
Fluoranthene	ND mg/kg	0.35	0.043	1	04/05/13 14:09	04/07/13 19:55	206-44-0		
Fluorene	ND mg/kg	0.35	0.045	1	04/05/13 14:09	04/07/13 19:55	86-73-7		
Hexachloro-1,3-butadiene	ND mg/kg	0.35	0.088	1	04/05/13 14:09	04/07/13 19:55	87-68-3		
Hexachlorobenzene	ND mg/kg	0.35	0.050	1	04/05/13 14:09	04/07/13 19:55	118-74-1		
Hexachlorocyclopentadiene	ND mg/kg	0.35	0.18	1	04/05/13 14:09	04/07/13 19:55	77-47-4		
Hexachloroethane	ND mg/kg	0.35	0.084	1	04/05/13 14:09	04/07/13 19:55	67-72-1		
Indeno(1,2,3-cd)pyrene	ND mg/kg	0.35	0.052	1	04/05/13 14:09	04/07/13 19:55	193-39-5		
Isophorone	ND mg/kg	0.35	0.043	1	04/05/13 14:09	04/07/13 19:55	78-59-1		
2-Methylnaphthalene	ND mg/kg	0.35	0.052	1	04/05/13 14:09	04/07/13 19:55	91-57-6		
2-Methylphenol(o-Cresol)	ND mg/kg	0.35	0.054	1	04/05/13 14:09	04/07/13 19:55	95-48-7		
3&4-Methylphenol	ND mg/kg	0.71	0.048	1	04/05/13 14:09	04/07/13 19:55			
Naphthalene	ND mg/kg	0.35	0.069	1	04/05/13 14:09	04/07/13 19:55	91-20-3		
2-Nitroaniline	ND mg/kg	0.35	0.049	1	04/05/13 14:09	04/07/13 19:55	88-74-4		
3-Nitroaniline	ND mg/kg	0.35	0.070	1	04/05/13 14:09	04/07/13 19:55	99-09-2		
4-Nitroaniline	ND mg/kg	0.35	0.052	1	04/05/13 14:09	04/07/13 19:55	100-01-6		
Nitrobenzene	ND mg/kg	0.35	0.071	1	04/05/13 14:09	04/07/13 19:55	98-95-3		
2-Nitrophenol	ND mg/kg	0.35	0.059	1	04/05/13 14:09	04/07/13 19:55	88-75-5		
4-Nitrophenol	ND mg/kg	0.35	0.067	1	04/05/13 14:09	04/07/13 19:55	100-02-7		
N-Nitroso-di-n-propylamine	ND mg/kg	0.35	0.055	1	04/05/13 14:09	04/07/13 19:55	621-64-7		
N-Nitrosodiphenylamine	ND mg/kg	0.35	0.051	1	04/05/13 14:09	04/07/13 19:55	86-30-6		
Pentachlorophenol	ND mg/kg	0.72	0.36	1	04/05/13 14:09	04/07/13 19:55	87-86-5		
Phenanthrene	ND mg/kg	0.35	0.047	1	04/05/13 14:09	04/07/13 19:55	85-01-8		
Phenol	ND mg/kg	0.35	0.064	1	04/05/13 14:09	04/07/13 19:55	108-95-2		
Pyrene	ND mg/kg	0.35	0.049	1	04/05/13 14:09	04/07/13 19:55	129-00-0		
1,2,4-Trichlorobenzene	ND mg/kg	0.35	0.073	1	04/05/13 14:09	04/07/13 19:55	120-82-1		
2,4,5-Trichlorophenol	ND mg/kg	0.35	0.061	1	04/05/13 14:09	04/07/13 19:55	95-95-4		

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10224318

Sample: HA-17-2.5 Lab ID: 10224318003 Collected: 04/02/13 10:20 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
2,4,6-Trichlorophenol	ND mg/kg		0.35	0.052	1	04/05/13 14:09	04/07/13 19:55	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	35 %		30-127		1	04/05/13 14:09	04/07/13 19:55	4165-60-0	
2-Fluorobiphenyl (S)	42 %		42-125		1	04/05/13 14:09	04/07/13 19:55	321-60-8	
Terphenyl-d14 (S)	51 %		51-125		1	04/05/13 14:09	04/07/13 19:55	1718-51-0	
Phenol-d6 (S)	38 %		30-125		1	04/05/13 14:09	04/07/13 19:55	13127-88-3	
2-Fluorophenol (S)	35 %		30-127		1	04/05/13 14:09	04/07/13 19:55	367-12-4	
2,4,6-Tribromophenol (S)	35 %		46-125		1	04/05/13 14:09	04/07/13 19:55	118-79-6	S0
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Acetone	ND mg/kg		1.1	0.53	1	04/05/13 13:45	04/07/13 20:31	67-64-1	
Allyl chloride	ND mg/kg		0.21	0.044	1	04/05/13 13:45	04/07/13 20:31	107-05-1	
Benzene	ND mg/kg		0.021	0.0050	1	04/05/13 13:45	04/07/13 20:31	71-43-2	
Bromobenzene	ND mg/kg		0.053	0.0059	1	04/05/13 13:45	04/07/13 20:31	108-86-1	
Bromochloromethane	ND mg/kg		0.053	0.018	1	04/05/13 13:45	04/07/13 20:31	74-97-5	
Bromodichloromethane	ND mg/kg		0.053	0.0083	1	04/05/13 13:45	04/07/13 20:31	75-27-4	
Bromoform	ND mg/kg		0.21	0.0098	1	04/05/13 13:45	04/07/13 20:31	75-25-2	
Bromomethane	ND mg/kg		0.53	0.036	1	04/05/13 13:45	04/07/13 20:31	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.26	0.13	1	04/05/13 13:45	04/07/13 20:31	78-93-3	
n-Butylbenzene	ND mg/kg		0.053	0.0069	1	04/05/13 13:45	04/07/13 20:31	104-51-8	
sec-Butylbenzene	ND mg/kg		0.053	0.0044	1	04/05/13 13:45	04/07/13 20:31	135-98-8	
tert-Butylbenzene	ND mg/kg		0.053	0.0054	1	04/05/13 13:45	04/07/13 20:31	98-06-6	
Carbon tetrachloride	ND mg/kg		0.053	0.010	1	04/05/13 13:45	04/07/13 20:31	56-23-5	
Chlorobenzene	ND mg/kg		0.053	0.0060	1	04/05/13 13:45	04/07/13 20:31	108-90-7	
Chloroethane	ND mg/kg		0.53	0.043	1	04/05/13 13:45	04/07/13 20:31	75-00-3	
Chloroform	ND mg/kg		0.053	0.0051	1	04/05/13 13:45	04/07/13 20:31	67-66-3	
Chloromethane	ND mg/kg		0.21	0.050	1	04/05/13 13:45	04/07/13 20:31	74-87-3	
2-Chlorotoluene	ND mg/kg		0.053	0.0071	1	04/05/13 13:45	04/07/13 20:31	95-49-8	
4-Chlorotoluene	ND mg/kg		0.053	0.0067	1	04/05/13 13:45	04/07/13 20:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.21	0.047	1	04/05/13 13:45	04/07/13 20:31	96-12-8	
Dibromochloromethane	ND mg/kg		0.053	0.0044	1	04/05/13 13:45	04/07/13 20:31	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.053	0.0089	1	04/05/13 13:45	04/07/13 20:31	106-93-4	
Dibromomethane	ND mg/kg		0.053	0.013	1	04/05/13 13:45	04/07/13 20:31	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.053	0.0061	1	04/05/13 13:45	04/07/13 20:31	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.053	0.0042	1	04/05/13 13:45	04/07/13 20:31	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.053	0.0059	1	04/05/13 13:45	04/07/13 20:31	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.053	0.013	1	04/05/13 13:45	04/07/13 20:31	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.053	0.026	1	04/05/13 13:45	04/07/13 20:31	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.053	0.0069	1	04/05/13 13:45	04/07/13 20:31	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.053	0.0077	1	04/05/13 13:45	04/07/13 20:31	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.053	0.0090	1	04/05/13 13:45	04/07/13 20:31	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.053	0.0098	1	04/05/13 13:45	04/07/13 20:31	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.53	0.034	1	04/05/13 13:45	04/07/13 20:31	75-43-4	
1,2-Dichloropropane	ND mg/kg		0.053	0.026	1	04/05/13 13:45	04/07/13 20:31	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.053	0.0074	1	04/05/13 13:45	04/07/13 20:31	142-28-9	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10224318

Sample: HA-17-2.5 Lab ID: 10224318003 Collected: 04/02/13 10:20 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
2,2-Dichloropropane	ND mg/kg		0.21	0.0075	1	04/05/13 13:45	04/07/13 20:31	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.053	0.0073	1	04/05/13 13:45	04/07/13 20:31	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.053	0.0082	1	04/05/13 13:45	04/07/13 20:31	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.053	0.0089	1	04/05/13 13:45	04/07/13 20:31	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.21	0.046	1	04/05/13 13:45	04/07/13 20:31	60-29-7	
Ethylbenzene	ND mg/kg		0.053	0.0044	1	04/05/13 13:45	04/07/13 20:31	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.26	0.023	1	04/05/13 13:45	04/07/13 20:31	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.053	0.0064	1	04/05/13 13:45	04/07/13 20:31	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.053	0.0062	1	04/05/13 13:45	04/07/13 20:31	99-87-6	
Methylene Chloride	ND mg/kg		0.21	0.11	1	04/05/13 13:45	04/07/13 20:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.26	0.13	1	04/05/13 13:45	04/07/13 20:31	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.053	0.0095	1	04/05/13 13:45	04/07/13 20:31	1634-04-4	
Naphthalene	ND mg/kg		0.21	0.0060	1	04/05/13 13:45	04/07/13 20:31	91-20-3	
n-Propylbenzene	ND mg/kg		0.053	0.0053	1	04/05/13 13:45	04/07/13 20:31	103-65-1	
Styrene	ND mg/kg		0.053	0.026	1	04/05/13 13:45	04/07/13 20:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.053	0.026	1	04/05/13 13:45	04/07/13 20:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.053	0.0098	1	04/05/13 13:45	04/07/13 20:31	79-34-5	
Tetrachloroethene	ND mg/kg		0.053	0.0075	1	04/05/13 13:45	04/07/13 20:31	127-18-4	
Tetrahydrofuran	ND mg/kg		2.1	0.15	1	04/05/13 13:45	04/07/13 20:31	109-99-9	
Toluene	ND mg/kg		0.053	0.0079	1	04/05/13 13:45	04/07/13 20:31	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.053	0.0079	1	04/05/13 13:45	04/07/13 20:31	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.053	0.0099	1	04/05/13 13:45	04/07/13 20:31	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.053	0.0072	1	04/05/13 13:45	04/07/13 20:31	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.053	0.013	1	04/05/13 13:45	04/07/13 20:31	79-00-5	
Trichloroethene	ND mg/kg		0.053	0.0092	1	04/05/13 13:45	04/07/13 20:31	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.21	0.019	1	04/05/13 13:45	04/07/13 20:31	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.21	0.014	1	04/05/13 13:45	04/07/13 20:31	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.053	0.021	1	04/05/13 13:45	04/07/13 20:31	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.053	0.0063	1	04/05/13 13:45	04/07/13 20:31	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.053	0.0063	1	04/05/13 13:45	04/07/13 20:31	108-67-8	
Vinyl chloride	ND mg/kg		0.021	0.0079	1	04/05/13 13:45	04/07/13 20:31	75-01-4	
Xylene (Total)	ND mg/kg		0.16	0.017	1	04/05/13 13:45	04/07/13 20:31	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	104 %	57-150			1	04/05/13 13:45	04/07/13 20:31	17060-07-0	
Toluene-d8 (S)	99 %	70-136			1	04/05/13 13:45	04/07/13 20:31	2037-26-5	
4-Bromofluorobenzene (S)	98 %	67-138			1	04/05/13 13:45	04/07/13 20:31	460-00-4	

ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10224318

Sample: HA-17-12 Lab ID: 10224318004 Collected: 04/02/13 10:40 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	ND mg/kg		12.0	1.3	1	04/08/13 06:52	04/09/13 01:15		
Surrogates									
n-Triacontane (S)	73 %		50-150		1	04/08/13 06:52	04/09/13 01:15		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	ND mg/kg		7.3	0.72	1	04/04/13 11:01	04/04/13 17:58		
Surrogates									
a,a,a-Trifluorotoluene (S)	100 %		80-125		1	04/04/13 11:01	04/04/13 17:58	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	3.7 mg/kg		1.3	0.22	1	04/05/13 09:37	04/08/13 16:31	7440-38-2	
Barium	77.3 mg/kg		0.66	0.038	1	04/05/13 09:37	04/08/13 16:31	7440-39-3	
Cadmium	0.81 mg/kg		0.20	0.099	1	04/05/13 09:37	04/08/13 16:31	7440-43-9	
Chromium	13.0 mg/kg		0.66	0.10	1	04/05/13 09:37	04/08/13 16:31	7440-47-3	
Lead	8.3 mg/kg		1.3	0.095	1	04/05/13 09:37	04/08/13 16:31	7439-92-1	
Selenium	ND mg/kg		0.99	0.33	1	04/05/13 09:37	04/08/13 16:31	7782-49-2	
Silver	ND mg/kg		0.66	0.045	1	04/05/13 09:37	04/08/13 16:31	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.026	0.0078	1	04/05/13 08:09	04/08/13 13:35	7439-97-6	
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	32.0 %		0.10	0.10	1		04/04/13 00:00		
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
Acenaphthene	ND mg/kg		0.48	0.057	1	04/05/13 14:09	04/07/13 20:24	83-32-9	
Acenaphthylene	ND mg/kg		0.48	0.056	1	04/05/13 14:09	04/07/13 20:24	208-96-8	
Anthracene	ND mg/kg		0.48	0.062	1	04/05/13 14:09	04/07/13 20:24	120-12-7	
Benzidine	ND mg/kg		2.4	1.2	1	04/05/13 14:09	04/07/13 20:24	92-87-5	
Benzo(a)anthracene	ND mg/kg		0.48	0.068	1	04/05/13 14:09	04/07/13 20:24	56-55-3	
Benzo(a)pyrene	ND mg/kg		0.48	0.069	1	04/05/13 14:09	04/07/13 20:24	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		0.48	0.069	1	04/05/13 14:09	04/07/13 20:24	205-99-2	
Benzo(g,h,i)perylene	ND mg/kg		0.48	0.074	1	04/05/13 14:09	04/07/13 20:24	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		0.48	0.067	1	04/05/13 14:09	04/07/13 20:24	207-08-9	
Benzoic acid	ND mg/kg		2.5	0.67	1	04/05/13 14:09	04/07/13 20:24	65-85-0	
Benzyl alcohol	ND mg/kg		0.48	0.072	1	04/05/13 14:09	04/07/13 20:24	100-51-6	L2
4-Bromophenylphenyl ether	ND mg/kg		0.48	0.074	1	04/05/13 14:09	04/07/13 20:24	101-55-3	
Butylbenzylphthalate	ND mg/kg		0.48	0.066	1	04/05/13 14:09	04/07/13 20:24	85-68-7	
4-Chloro-3-methylphenol	ND mg/kg		0.48	0.057	1	04/05/13 14:09	04/07/13 20:24	59-50-7	
4-Chloroaniline	ND mg/kg		0.48	0.10	1	04/05/13 14:09	04/07/13 20:24	106-47-8	CL
bis(2-Chloroethoxy)methane	ND mg/kg		0.48	0.082	1	04/05/13 14:09	04/07/13 20:24	111-91-1	
bis(2-Chloroethyl) ether	ND mg/kg		0.48	0.099	1	04/05/13 14:09	04/07/13 20:24	111-44-4	
bis(2-Chloroisopropyl) ether	ND mg/kg		0.48	0.12	1	04/05/13 14:09	04/07/13 20:24	108-60-1	
2-Chloronaphthalene	ND mg/kg		0.48	0.058	1	04/05/13 14:09	04/07/13 20:24	91-58-7	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10224318

Sample: HA-17-12 Lab ID: 10224318004 Collected: 04/02/13 10:40 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3550							
2-Chlorophenol	ND mg/kg	0.48	0.11	1	04/05/13 14:09	04/07/13 20:24	95-57-8		
4-Chlorophenylphenyl ether	ND mg/kg	0.48	0.065	1	04/05/13 14:09	04/07/13 20:24	7005-72-3		
Chrysene	ND mg/kg	0.48	0.069	1	04/05/13 14:09	04/07/13 20:24	218-01-9		
Dibenz(a,h)anthracene	ND mg/kg	0.48	0.075	1	04/05/13 14:09	04/07/13 20:24	53-70-3		
Dibenzofuran	ND mg/kg	0.48	0.059	1	04/05/13 14:09	04/07/13 20:24	132-64-9		
1,2-Dichlorobenzene	ND mg/kg	0.48	0.10	1	04/05/13 14:09	04/07/13 20:24	95-50-1		
1,3-Dichlorobenzene	ND mg/kg	0.48	0.11	1	04/05/13 14:09	04/07/13 20:24	541-73-1		
1,4-Dichlorobenzene	ND mg/kg	0.48	0.10	1	04/05/13 14:09	04/07/13 20:24	106-46-7		
3,3'-Dichlorobenzidine	ND mg/kg	0.48	0.24	1	04/05/13 14:09	04/07/13 20:24	91-94-1		
2,4-Dichlorophenol	ND mg/kg	0.48	0.073	1	04/05/13 14:09	04/07/13 20:24	120-83-2		
Diethylphthalate	ND mg/kg	0.48	0.064	1	04/05/13 14:09	04/07/13 20:24	84-66-2		
2,4-Dimethylphenol	ND mg/kg	0.48	0.080	1	04/05/13 14:09	04/07/13 20:24	105-67-9		
Dimethylphthalate	ND mg/kg	0.48	0.068	1	04/05/13 14:09	04/07/13 20:24	131-11-3		
Di-n-butylphthalate	ND mg/kg	0.48	0.050	1	04/05/13 14:09	04/07/13 20:24	84-74-2		
4,6-Dinitro-2-methylphenol	ND mg/kg	2.5	0.41	1	04/05/13 14:09	04/07/13 20:24	534-52-1		
2,4-Dinitrophenol	ND mg/kg	0.48	0.070	1	04/05/13 14:09	04/07/13 20:24	51-28-5		
2,4-Dinitrotoluene	ND mg/kg	0.48	0.081	1	04/05/13 14:09	04/07/13 20:24	121-14-2		
2,6-Dinitrotoluene	ND mg/kg	0.48	0.068	1	04/05/13 14:09	04/07/13 20:24	606-20-2		
Di-n-octylphthalate	ND mg/kg	0.48	0.071	1	04/05/13 14:09	04/07/13 20:24	117-84-0		
bis(2-Ethylhexyl)phthalate	ND mg/kg	0.48	0.11	1	04/05/13 14:09	04/07/13 20:24	117-81-7		
Fluoranthene	ND mg/kg	0.48	0.059	1	04/05/13 14:09	04/07/13 20:24	206-44-0		
Fluorene	ND mg/kg	0.48	0.062	1	04/05/13 14:09	04/07/13 20:24	86-73-7		
Hexachloro-1,3-butadiene	ND mg/kg	0.48	0.12	1	04/05/13 14:09	04/07/13 20:24	87-68-3		
Hexachlorobenzene	ND mg/kg	0.48	0.068	1	04/05/13 14:09	04/07/13 20:24	118-74-1		
Hexachlorocyclopentadiene	ND mg/kg	0.48	0.24	1	04/05/13 14:09	04/07/13 20:24	77-47-4		
Hexachloroethane	ND mg/kg	0.48	0.11	1	04/05/13 14:09	04/07/13 20:24	67-72-1		
Indeno(1,2,3-cd)pyrene	ND mg/kg	0.48	0.071	1	04/05/13 14:09	04/07/13 20:24	193-39-5		
Isophorone	ND mg/kg	0.48	0.058	1	04/05/13 14:09	04/07/13 20:24	78-59-1		
2-Methylnaphthalene	ND mg/kg	0.48	0.072	1	04/05/13 14:09	04/07/13 20:24	91-57-6		
2-Methylphenol(o-Cresol)	ND mg/kg	0.48	0.074	1	04/05/13 14:09	04/07/13 20:24	95-48-7		
3&4-Methylphenol	ND mg/kg	0.97	0.065	1	04/05/13 14:09	04/07/13 20:24			
Naphthalene	ND mg/kg	0.48	0.094	1	04/05/13 14:09	04/07/13 20:24	91-20-3		
2-Nitroaniline	ND mg/kg	0.48	0.067	1	04/05/13 14:09	04/07/13 20:24	88-74-4		
3-Nitroaniline	ND mg/kg	0.48	0.095	1	04/05/13 14:09	04/07/13 20:24	99-09-2		
4-Nitroaniline	ND mg/kg	0.48	0.071	1	04/05/13 14:09	04/07/13 20:24	100-01-6		
Nitrobenzene	ND mg/kg	0.48	0.097	1	04/05/13 14:09	04/07/13 20:24	98-95-3		
2-Nitrophenol	ND mg/kg	0.48	0.080	1	04/05/13 14:09	04/07/13 20:24	88-75-5		
4-Nitrophenol	ND mg/kg	0.48	0.092	1	04/05/13 14:09	04/07/13 20:24	100-02-7		
N-Nitroso-di-n-propylamine	ND mg/kg	0.48	0.075	1	04/05/13 14:09	04/07/13 20:24	621-64-7		
N-Nitrosodiphenylamine	ND mg/kg	0.48	0.070	1	04/05/13 14:09	04/07/13 20:24	86-30-6		
Pentachlorophenol	ND mg/kg	0.98	0.49	1	04/05/13 14:09	04/07/13 20:24	87-86-5		
Phenanthrene	ND mg/kg	0.48	0.065	1	04/05/13 14:09	04/07/13 20:24	85-01-8		
Phenol	ND mg/kg	0.48	0.088	1	04/05/13 14:09	04/07/13 20:24	108-95-2		
Pyrene	ND mg/kg	0.48	0.067	1	04/05/13 14:09	04/07/13 20:24	129-00-0		
1,2,4-Trichlorobenzene	ND mg/kg	0.48	0.10	1	04/05/13 14:09	04/07/13 20:24	120-82-1		

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10224318

Sample: HA-17-12 Lab ID: 10224318004 Collected: 04/02/13 10:40 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
2,4,5-Trichlorophenol	ND mg/kg		0.48	0.083	1	04/05/13 14:09	04/07/13 20:24	95-95-4	
2,4,6-Trichlorophenol	ND mg/kg		0.48	0.072	1	04/05/13 14:09	04/07/13 20:24	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	51 %		30-127		1	04/05/13 14:09	04/07/13 20:24	4165-60-0	
2-Fluorobiphenyl (S)	60 %		42-125		1	04/05/13 14:09	04/07/13 20:24	321-60-8	
Terphenyl-d14 (S)	72 %		51-125		1	04/05/13 14:09	04/07/13 20:24	1718-51-0	
Phenol-d6 (S)	56 %		30-125		1	04/05/13 14:09	04/07/13 20:24	13127-88-3	
2-Fluorophenol (S)	54 %		30-127		1	04/05/13 14:09	04/07/13 20:24	367-12-4	
2,4,6-Tribromophenol (S)	59 %		46-125		1	04/05/13 14:09	04/07/13 20:24	118-79-6	
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Acetone	ND mg/kg		1.5	0.73	1	04/05/13 13:45	04/07/13 20:48	67-64-1	
Allyl chloride	ND mg/kg		0.29	0.060	1	04/05/13 13:45	04/07/13 20:48	107-05-1	
Benzene	ND mg/kg		0.029	0.0068	1	04/05/13 13:45	04/07/13 20:48	71-43-2	
Bromobenzene	ND mg/kg		0.073	0.0081	1	04/05/13 13:45	04/07/13 20:48	108-86-1	
Bromochloromethane	ND mg/kg		0.073	0.025	1	04/05/13 13:45	04/07/13 20:48	74-97-5	
Bromodichloromethane	ND mg/kg		0.073	0.011	1	04/05/13 13:45	04/07/13 20:48	75-27-4	
Bromoform	ND mg/kg		0.29	0.013	1	04/05/13 13:45	04/07/13 20:48	75-25-2	
Bromomethane	ND mg/kg		0.73	0.049	1	04/05/13 13:45	04/07/13 20:48	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.36	0.18	1	04/05/13 13:45	04/07/13 20:48	78-93-3	
n-Butylbenzene	ND mg/kg		0.073	0.0095	1	04/05/13 13:45	04/07/13 20:48	104-51-8	
sec-Butylbenzene	ND mg/kg		0.073	0.0061	1	04/05/13 13:45	04/07/13 20:48	135-98-8	
tert-Butylbenzene	ND mg/kg		0.073	0.0075	1	04/05/13 13:45	04/07/13 20:48	98-06-6	
Carbon tetrachloride	ND mg/kg		0.073	0.014	1	04/05/13 13:45	04/07/13 20:48	56-23-5	
Chlorobenzene	ND mg/kg		0.073	0.0083	1	04/05/13 13:45	04/07/13 20:48	108-90-7	
Chloroethane	ND mg/kg		0.73	0.059	1	04/05/13 13:45	04/07/13 20:48	75-00-3	
Chloroform	ND mg/kg		0.073	0.0070	1	04/05/13 13:45	04/07/13 20:48	67-66-3	
Chloromethane	ND mg/kg		0.29	0.068	1	04/05/13 13:45	04/07/13 20:48	74-87-3	
2-Chlorotoluene	ND mg/kg		0.073	0.0097	1	04/05/13 13:45	04/07/13 20:48	95-49-8	
4-Chlorotoluene	ND mg/kg		0.073	0.0093	1	04/05/13 13:45	04/07/13 20:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.29	0.065	1	04/05/13 13:45	04/07/13 20:48	96-12-8	
Dibromochloromethane	ND mg/kg		0.073	0.0061	1	04/05/13 13:45	04/07/13 20:48	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.073	0.012	1	04/05/13 13:45	04/07/13 20:48	106-93-4	
Dibromomethane	ND mg/kg		0.073	0.018	1	04/05/13 13:45	04/07/13 20:48	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.073	0.0084	1	04/05/13 13:45	04/07/13 20:48	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.073	0.0058	1	04/05/13 13:45	04/07/13 20:48	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.073	0.0081	1	04/05/13 13:45	04/07/13 20:48	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.073	0.018	1	04/05/13 13:45	04/07/13 20:48	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.073	0.036	1	04/05/13 13:45	04/07/13 20:48	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.073	0.0095	1	04/05/13 13:45	04/07/13 20:48	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.073	0.011	1	04/05/13 13:45	04/07/13 20:48	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.073	0.012	1	04/05/13 13:45	04/07/13 20:48	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.073	0.013	1	04/05/13 13:45	04/07/13 20:48	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.73	0.047	1	04/05/13 13:45	04/07/13 20:48	75-43-4	
1,2-Dichloropropane	ND mg/kg		0.073	0.036	1	04/05/13 13:45	04/07/13 20:48	78-87-5	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10224318

Sample: HA-17-12 Lab ID: 10224318004 Collected: 04/02/13 10:40 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,3-Dichloropropane	ND mg/kg		0.073	0.010	1	04/05/13 13:45	04/07/13 20:48	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.29	0.010	1	04/05/13 13:45	04/07/13 20:48	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.073	0.010	1	04/05/13 13:45	04/07/13 20:48	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.073	0.011	1	04/05/13 13:45	04/07/13 20:48	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.073	0.012	1	04/05/13 13:45	04/07/13 20:48	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.29	0.063	1	04/05/13 13:45	04/07/13 20:48	60-29-7	
Ethylbenzene	ND mg/kg		0.073	0.0061	1	04/05/13 13:45	04/07/13 20:48	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.36	0.032	1	04/05/13 13:45	04/07/13 20:48	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.073	0.0088	1	04/05/13 13:45	04/07/13 20:48	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.073	0.0086	1	04/05/13 13:45	04/07/13 20:48	99-87-6	
Methylene Chloride	ND mg/kg		0.29	0.15	1	04/05/13 13:45	04/07/13 20:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.36	0.18	1	04/05/13 13:45	04/07/13 20:48	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.073	0.013	1	04/05/13 13:45	04/07/13 20:48	1634-04-4	
Naphthalene	ND mg/kg		0.29	0.0083	1	04/05/13 13:45	04/07/13 20:48	91-20-3	
n-Propylbenzene	ND mg/kg		0.073	0.0073	1	04/05/13 13:45	04/07/13 20:48	103-65-1	
Styrene	ND mg/kg		0.073	0.036	1	04/05/13 13:45	04/07/13 20:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.073	0.036	1	04/05/13 13:45	04/07/13 20:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.073	0.013	1	04/05/13 13:45	04/07/13 20:48	79-34-5	
Tetrachloroethene	ND mg/kg		0.073	0.010	1	04/05/13 13:45	04/07/13 20:48	127-18-4	
Tetrahydrofuran	ND mg/kg		2.9	0.20	1	04/05/13 13:45	04/07/13 20:48	109-99-9	
Toluene	ND mg/kg		0.073	0.011	1	04/05/13 13:45	04/07/13 20:48	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.073	0.011	1	04/05/13 13:45	04/07/13 20:48	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.073	0.014	1	04/05/13 13:45	04/07/13 20:48	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.073	0.010	1	04/05/13 13:45	04/07/13 20:48	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.073	0.018	1	04/05/13 13:45	04/07/13 20:48	79-00-5	
Trichloroethene	ND mg/kg		0.073	0.013	1	04/05/13 13:45	04/07/13 20:48	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.29	0.026	1	04/05/13 13:45	04/07/13 20:48	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.29	0.019	1	04/05/13 13:45	04/07/13 20:48	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.073	0.029	1	04/05/13 13:45	04/07/13 20:48	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.073	0.0087	1	04/05/13 13:45	04/07/13 20:48	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.073	0.0086	1	04/05/13 13:45	04/07/13 20:48	108-67-8	
Vinyl chloride	ND mg/kg		0.029	0.011	1	04/05/13 13:45	04/07/13 20:48	75-01-4	
Xylene (Total)	ND mg/kg		0.22	0.024	1	04/05/13 13:45	04/07/13 20:48	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	104 %		57-150		1	04/05/13 13:45	04/07/13 20:48	17060-07-0	
Toluene-d8 (S)	98 %		70-136		1	04/05/13 13:45	04/07/13 20:48	2037-26-5	
4-Bromofluorobenzene (S)	99 %		67-138		1	04/05/13 13:45	04/07/13 20:48	460-00-4	

ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10224318

Sample: HA-18-3 Lab ID: 10224318005 Collected: 04/02/13 09:15 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3550								
PCB-1016 (Aroclor 1016)	ND mg/kg	0.035	0.013	1	04/11/13 13:25	04/12/13 23:39	12674-11-2		
PCB-1221 (Aroclor 1221)	ND mg/kg	0.035	0.014	1	04/11/13 13:25	04/12/13 23:39	11104-28-2		
PCB-1232 (Aroclor 1232)	ND mg/kg	0.035	0.015	1	04/11/13 13:25	04/12/13 23:39	11141-16-5		
PCB-1242 (Aroclor 1242)	ND mg/kg	0.035	0.0084	1	04/11/13 13:25	04/12/13 23:39	53469-21-9		
PCB-1248 (Aroclor 1248)	ND mg/kg	0.035	0.0073	1	04/11/13 13:25	04/12/13 23:39	12672-29-6		
PCB-1254 (Aroclor 1254)	ND mg/kg	0.035	0.0094	1	04/11/13 13:25	04/12/13 23:39	11097-69-1		
PCB-1260 (Aroclor 1260)	ND mg/kg	0.035	0.013	1	04/11/13 13:25	04/12/13 23:39	11096-82-5		
PCB-1262 (Aroclor 1262)	ND mg/kg	0.035	0.0042	1	04/11/13 13:25	04/12/13 23:39	37324-23-5		
PCB-1268 (Aroclor 1268)	ND mg/kg	0.035	0.0063	1	04/11/13 13:25	04/12/13 23:39	11100-14-4		
Surrogates									
Tetrachloro-m-xylene (S)	77 %	38-125			1	04/11/13 13:25	04/12/13 23:39	877-09-8	
Decachlorobiphenyl (S)	125 %	35-126			1	04/11/13 13:25	04/12/13 23:39	2051-24-3	CH
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	53.3 mg/kg	8.4	0.93	1	04/08/13 06:52	04/09/13 03:05			T6
Surrogates									
n-Triacontane (S)	99 %	50-150			1	04/08/13 06:52	04/09/13 03:05		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	ND mg/kg	5.5	0.54	1	04/04/13 11:01	04/04/13 18:17			
Surrogates									
a,a,a-Trifluorotoluene (S)	99 %	80-125			1	04/04/13 11:01	04/04/13 18:17	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	9.4 mg/kg	1.0	0.17	1	04/05/13 09:37	04/08/13 16:38	7440-38-2		
Barium	24.7 mg/kg	0.51	0.030	1	04/05/13 09:37	04/08/13 16:38	7440-39-3		
Cadmium	ND mg/kg	0.15	0.077	1	04/05/13 09:37	04/08/13 16:38	7440-43-9		
Chromium	7.5 mg/kg	0.51	0.078	1	04/05/13 09:37	04/08/13 16:38	7440-47-3		
Lead	16.1 mg/kg	1.0	0.073	1	04/05/13 09:37	04/08/13 16:38	7439-92-1		
Selenium	ND mg/kg	0.77	0.25	1	04/05/13 09:37	04/08/13 16:38	7782-49-2		
Silver	ND mg/kg	0.51	0.035	1	04/05/13 09:37	04/08/13 16:38	7440-22-4		
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg	0.021	0.0064	1	04/05/13 08:09	04/08/13 13:37	7439-97-6		
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	5.8 %	0.10	0.10	1			04/04/13 00:00		
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
Acenaphthene	ND mg/kg	0.35	0.041	1	04/05/13 14:09	04/07/13 21:22	83-32-9		
Acenaphthylene	ND mg/kg	0.35	0.041	1	04/05/13 14:09	04/07/13 21:22	208-96-8		
Anthracene	0.54 mg/kg	0.35	0.045	1	04/05/13 14:09	04/07/13 21:22	120-12-7		
Benzidine	ND mg/kg	1.7	0.85	1	04/05/13 14:09	04/07/13 21:22	92-87-5		CL,L2, SS
Benzo(a)anthracene	2.5 mg/kg	0.35	0.049	1	04/05/13 14:09	04/07/13 21:22	56-55-3		

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10224318

Sample: HA-18-3 Lab ID: 10224318005 Collected: 04/02/13 09:15 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3550							
Benzo(a)pyrene	3.7 mg/kg	0.35	0.050	1	04/05/13 14:09	04/07/13 21:22	50-32-8		
Benzo(b)fluoranthene	5.1 mg/kg	0.35	0.050	1	04/05/13 14:09	04/07/13 21:22	205-99-2		
Benzo(g,h,i)perylene	3.0 mg/kg	0.35	0.053	1	04/05/13 14:09	04/07/13 21:22	191-24-2		
Benzo(k)fluoranthene	2.2 mg/kg	0.35	0.049	1	04/05/13 14:09	04/07/13 21:22	207-08-9		
Benzoic acid	ND mg/kg	1.8	0.49	1	04/05/13 14:09	04/07/13 21:22	65-85-0		
Benzyl alcohol	ND mg/kg	0.35	0.052	1	04/05/13 14:09	04/07/13 21:22	100-51-6	L2	
4-Bromophenylphenyl ether	ND mg/kg	0.35	0.053	1	04/05/13 14:09	04/07/13 21:22	101-55-3		
Butylbenzylphthalate	ND mg/kg	0.35	0.048	1	04/05/13 14:09	04/07/13 21:22	85-68-7		
4-Chloro-3-methylphenol	ND mg/kg	0.35	0.041	1	04/05/13 14:09	04/07/13 21:22	59-50-7		
4-Chloroaniline	ND mg/kg	0.35	0.075	1	04/05/13 14:09	04/07/13 21:22	106-47-8	CL	
bis(2-Chloroethoxy)methane	ND mg/kg	0.35	0.059	1	04/05/13 14:09	04/07/13 21:22	111-91-1		
bis(2-Chloroethyl) ether	ND mg/kg	0.35	0.072	1	04/05/13 14:09	04/07/13 21:22	111-44-4		
bis(2-Chloroisopropyl) ether	ND mg/kg	0.35	0.084	1	04/05/13 14:09	04/07/13 21:22	108-60-1		
2-Chloronaphthalene	ND mg/kg	0.35	0.042	1	04/05/13 14:09	04/07/13 21:22	91-58-7		
2-Chlorophenol	ND mg/kg	0.35	0.077	1	04/05/13 14:09	04/07/13 21:22	95-57-8		
4-Chlorophenylphenyl ether	ND mg/kg	0.35	0.047	1	04/05/13 14:09	04/07/13 21:22	7005-72-3		
Chrysene	3.1 mg/kg	0.35	0.050	1	04/05/13 14:09	04/07/13 21:22	218-01-9		
Dibenz(a,h)anthracene	0.73 mg/kg	0.35	0.054	1	04/05/13 14:09	04/07/13 21:22	53-70-3		
Dibenzofuran	ND mg/kg	0.35	0.043	1	04/05/13 14:09	04/07/13 21:22	132-64-9		
1,2-Dichlorobenzene	ND mg/kg	0.35	0.075	1	04/05/13 14:09	04/07/13 21:22	95-50-1		
1,3-Dichlorobenzene	ND mg/kg	0.35	0.080	1	04/05/13 14:09	04/07/13 21:22	541-73-1		
1,4-Dichlorobenzene	ND mg/kg	0.35	0.075	1	04/05/13 14:09	04/07/13 21:22	106-46-7		
3,3'-Dichlorobenzidine	ND mg/kg	0.35	0.18	1	04/05/13 14:09	04/07/13 21:22	91-94-1		
2,4-Dichlorophenol	ND mg/kg	0.35	0.052	1	04/05/13 14:09	04/07/13 21:22	120-83-2		
Diethylphthalate	ND mg/kg	0.35	0.046	1	04/05/13 14:09	04/07/13 21:22	84-66-2		
2,4-Dimethylphenol	ND mg/kg	0.35	0.057	1	04/05/13 14:09	04/07/13 21:22	105-67-9		
Dimethylphthalate	ND mg/kg	0.35	0.049	1	04/05/13 14:09	04/07/13 21:22	131-11-3		
Di-n-butylphthalate	ND mg/kg	0.35	0.036	1	04/05/13 14:09	04/07/13 21:22	84-74-2		
4,6-Dinitro-2-methylphenol	ND mg/kg	1.8	0.30	1	04/05/13 14:09	04/07/13 21:22	534-52-1		
2,4-Dinitrophenol	ND mg/kg	0.35	0.050	1	04/05/13 14:09	04/07/13 21:22	51-28-5		
2,4-Dinitrotoluene	ND mg/kg	0.35	0.058	1	04/05/13 14:09	04/07/13 21:22	121-14-2		
2,6-Dinitrotoluene	ND mg/kg	0.35	0.049	1	04/05/13 14:09	04/07/13 21:22	606-20-2		
Di-n-octylphthalate	ND mg/kg	0.35	0.051	1	04/05/13 14:09	04/07/13 21:22	117-84-0		
bis(2-Ethylhexyl)phthalate	ND mg/kg	0.35	0.082	1	04/05/13 14:09	04/07/13 21:22	117-81-7		
Fluoranthene	3.8 mg/kg	0.35	0.043	1	04/05/13 14:09	04/07/13 21:22	206-44-0		
Fluorene	ND mg/kg	0.35	0.045	1	04/05/13 14:09	04/07/13 21:22	86-73-7		
Hexachloro-1,3-butadiene	ND mg/kg	0.35	0.087	1	04/05/13 14:09	04/07/13 21:22	87-68-3		
Hexachlorobenzene	ND mg/kg	0.35	0.049	1	04/05/13 14:09	04/07/13 21:22	118-74-1		
Hexachlorocyclopentadiene	ND mg/kg	0.35	0.18	1	04/05/13 14:09	04/07/13 21:22	77-47-4		
Hexachloroethane	ND mg/kg	0.35	0.083	1	04/05/13 14:09	04/07/13 21:22	67-72-1		
Indeno(1,2,3-cd)pyrene	2.6 mg/kg	0.35	0.051	1	04/05/13 14:09	04/07/13 21:22	193-39-5		
Isophorone	ND mg/kg	0.35	0.042	1	04/05/13 14:09	04/07/13 21:22	78-59-1		
2-Methylnaphthalene	ND mg/kg	0.35	0.052	1	04/05/13 14:09	04/07/13 21:22	91-57-6		
2-Methylphenol(o-Cresol)	ND mg/kg	0.35	0.054	1	04/05/13 14:09	04/07/13 21:22	95-48-7		
3&4-Methylphenol	ND mg/kg	0.70	0.047	1	04/05/13 14:09	04/07/13 21:22			

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10224318

Sample: HA-18-3 Lab ID: 10224318005 Collected: 04/02/13 09:15 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3550							
Naphthalene	ND mg/kg	0.35	0.068	1	04/05/13 14:09	04/07/13 21:22	91-20-3		
2-Nitroaniline	ND mg/kg	0.35	0.049	1	04/05/13 14:09	04/07/13 21:22	88-74-4		
3-Nitroaniline	ND mg/kg	0.35	0.069	1	04/05/13 14:09	04/07/13 21:22	99-09-2		
4-Nitroaniline	ND mg/kg	0.35	0.051	1	04/05/13 14:09	04/07/13 21:22	100-01-6		
Nitrobenzene	ND mg/kg	0.35	0.070	1	04/05/13 14:09	04/07/13 21:22	98-95-3		
2-Nitrophenol	ND mg/kg	0.35	0.058	1	04/05/13 14:09	04/07/13 21:22	88-75-5		
4-Nitrophenol	ND mg/kg	0.35	0.066	1	04/05/13 14:09	04/07/13 21:22	100-02-7		
N-Nitroso-di-n-propylamine	ND mg/kg	0.35	0.054	1	04/05/13 14:09	04/07/13 21:22	621-64-7		
N-Nitrosodiphenylamine	ND mg/kg	0.35	0.051	1	04/05/13 14:09	04/07/13 21:22	86-30-6		
Pentachlorophenol	ND mg/kg	0.71	0.36	1	04/05/13 14:09	04/07/13 21:22	87-86-5		
Phenanthrene	0.89 mg/kg	0.35	0.047	1	04/05/13 14:09	04/07/13 21:22	85-01-8		
Phenol	ND mg/kg	0.35	0.064	1	04/05/13 14:09	04/07/13 21:22	108-95-2		
Pyrene	3.3 mg/kg	0.35	0.049	1	04/05/13 14:09	04/07/13 21:22	129-00-0		
1,2,4-Trichlorobenzene	ND mg/kg	0.35	0.072	1	04/05/13 14:09	04/07/13 21:22	120-82-1		
2,4,5-Trichlorophenol	ND mg/kg	0.35	0.060	1	04/05/13 14:09	04/07/13 21:22	95-95-4		
2,4,6-Trichlorophenol	ND mg/kg	0.35	0.052	1	04/05/13 14:09	04/07/13 21:22	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	47 %	30-127		1	04/05/13 14:09	04/07/13 21:22	4165-60-0		
2-Fluorobiphenyl (S)	63 %	42-125		1	04/05/13 14:09	04/07/13 21:22	321-60-8		
Terphenyl-d14 (S)	69 %	51-125		1	04/05/13 14:09	04/07/13 21:22	1718-51-0		
Phenol-d6 (S)	57 %	30-125		1	04/05/13 14:09	04/07/13 21:22	13127-88-3		
2-Fluorophenol (S)	50 %	30-127		1	04/05/13 14:09	04/07/13 21:22	367-12-4		
2,4,6-Tribromophenol (S)	70 %	46-125		1	04/05/13 14:09	04/07/13 21:22	118-79-6		
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND mg/kg	1.2	0.58	1	04/05/13 13:45	04/07/13 21:05	67-64-1		
Allyl chloride	ND mg/kg	0.23	0.048	1	04/05/13 13:45	04/07/13 21:05	107-05-1		
Benzene	ND mg/kg	0.023	0.0055	1	04/05/13 13:45	04/07/13 21:05	71-43-2		
Bromobenzene	ND mg/kg	0.058	0.0065	1	04/05/13 13:45	04/07/13 21:05	108-86-1		
Bromochloromethane	ND mg/kg	0.058	0.020	1	04/05/13 13:45	04/07/13 21:05	74-97-5		
Bromodichloromethane	ND mg/kg	0.058	0.0092	1	04/05/13 13:45	04/07/13 21:05	75-27-4		
Bromoform	ND mg/kg	0.23	0.011	1	04/05/13 13:45	04/07/13 21:05	75-25-2		
Bromomethane	ND mg/kg	0.58	0.039	1	04/05/13 13:45	04/07/13 21:05	74-83-9		
2-Butanone (MEK)	ND mg/kg	0.29	0.15	1	04/05/13 13:45	04/07/13 21:05	78-93-3		
n-Butylbenzene	ND mg/kg	0.058	0.0076	1	04/05/13 13:45	04/07/13 21:05	104-51-8		
sec-Butylbenzene	ND mg/kg	0.058	0.0049	1	04/05/13 13:45	04/07/13 21:05	135-98-8		
tert-Butylbenzene	ND mg/kg	0.058	0.0060	1	04/05/13 13:45	04/07/13 21:05	98-06-6		
Carbon tetrachloride	ND mg/kg	0.058	0.011	1	04/05/13 13:45	04/07/13 21:05	56-23-5		
Chlorobenzene	ND mg/kg	0.058	0.0066	1	04/05/13 13:45	04/07/13 21:05	108-90-7		
Chloroethane	ND mg/kg	0.58	0.047	1	04/05/13 13:45	04/07/13 21:05	75-00-3		
Chloroform	ND mg/kg	0.058	0.0056	1	04/05/13 13:45	04/07/13 21:05	67-66-3		
Chloromethane	ND mg/kg	0.23	0.055	1	04/05/13 13:45	04/07/13 21:05	74-87-3		
2-Chlorotoluene	ND mg/kg	0.058	0.0078	1	04/05/13 13:45	04/07/13 21:05	95-49-8		
4-Chlorotoluene	ND mg/kg	0.058	0.0074	1	04/05/13 13:45	04/07/13 21:05	106-43-4		
1,2-Dibromo-3-chloropropane	ND mg/kg	0.23	0.052	1	04/05/13 13:45	04/07/13 21:05	96-12-8		

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10224318

Sample: HA-18-3 Lab ID: 10224318005 Collected: 04/02/13 09:15 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Dibromochloromethane	ND mg/kg		0.058	0.0049	1	04/05/13 13:45	04/07/13 21:05	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.058	0.0098	1	04/05/13 13:45	04/07/13 21:05	106-93-4	
Dibromomethane	ND mg/kg		0.058	0.014	1	04/05/13 13:45	04/07/13 21:05	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.058	0.0067	1	04/05/13 13:45	04/07/13 21:05	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.058	0.0047	1	04/05/13 13:45	04/07/13 21:05	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.058	0.0065	1	04/05/13 13:45	04/07/13 21:05	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.058	0.015	1	04/05/13 13:45	04/07/13 21:05	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.058	0.029	1	04/05/13 13:45	04/07/13 21:05	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.058	0.0076	1	04/05/13 13:45	04/07/13 21:05	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.058	0.0085	1	04/05/13 13:45	04/07/13 21:05	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.058	0.010	1	04/05/13 13:45	04/07/13 21:05	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.058	0.011	1	04/05/13 13:45	04/07/13 21:05	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.58	0.037	1	04/05/13 13:45	04/07/13 21:05	75-43-4	
1,2-Dichloropropane	ND mg/kg		0.058	0.029	1	04/05/13 13:45	04/07/13 21:05	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.058	0.0082	1	04/05/13 13:45	04/07/13 21:05	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.23	0.0082	1	04/05/13 13:45	04/07/13 21:05	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.058	0.0080	1	04/05/13 13:45	04/07/13 21:05	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.058	0.0090	1	04/05/13 13:45	04/07/13 21:05	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.058	0.0098	1	04/05/13 13:45	04/07/13 21:05	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.23	0.051	1	04/05/13 13:45	04/07/13 21:05	60-29-7	
Ethylbenzene	ND mg/kg		0.058	0.0049	1	04/05/13 13:45	04/07/13 21:05	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.29	0.025	1	04/05/13 13:45	04/07/13 21:05	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.058	0.0070	1	04/05/13 13:45	04/07/13 21:05	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.058	0.0069	1	04/05/13 13:45	04/07/13 21:05	99-87-6	
Methylene Chloride	ND mg/kg		0.23	0.12	1	04/05/13 13:45	04/07/13 21:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.29	0.15	1	04/05/13 13:45	04/07/13 21:05	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.058	0.010	1	04/05/13 13:45	04/07/13 21:05	1634-04-4	
Naphthalene	ND mg/kg		0.23	0.0066	1	04/05/13 13:45	04/07/13 21:05	91-20-3	
n-Propylbenzene	ND mg/kg		0.058	0.0059	1	04/05/13 13:45	04/07/13 21:05	103-65-1	
Styrene	ND mg/kg		0.058	0.029	1	04/05/13 13:45	04/07/13 21:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.058	0.029	1	04/05/13 13:45	04/07/13 21:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.058	0.011	1	04/05/13 13:45	04/07/13 21:05	79-34-5	
Tetrachloroethene	ND mg/kg		0.058	0.0083	1	04/05/13 13:45	04/07/13 21:05	127-18-4	
Tetrahydrofuran	ND mg/kg		2.3	0.16	1	04/05/13 13:45	04/07/13 21:05	109-99-9	
Toluene	ND mg/kg		0.058	0.0088	1	04/05/13 13:45	04/07/13 21:05	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.058	0.0087	1	04/05/13 13:45	04/07/13 21:05	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.058	0.011	1	04/05/13 13:45	04/07/13 21:05	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.058	0.0080	1	04/05/13 13:45	04/07/13 21:05	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.058	0.014	1	04/05/13 13:45	04/07/13 21:05	79-00-5	
Trichloroethene	ND mg/kg		0.058	0.010	1	04/05/13 13:45	04/07/13 21:05	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.23	0.020	1	04/05/13 13:45	04/07/13 21:05	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.23	0.016	1	04/05/13 13:45	04/07/13 21:05	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.058	0.024	1	04/05/13 13:45	04/07/13 21:05	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.058	0.0069	1	04/05/13 13:45	04/07/13 21:05	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.058	0.0069	1	04/05/13 13:45	04/07/13 21:05	108-67-8	

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ANALYTICAL RESULTS

Project: MCES 123840
Pace Project No.: 10224318

Sample: HA-18-3 Lab ID: 10224318005 Collected: 04/02/13 09:15 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Vinyl chloride	ND	mg/kg	0.023	0.0087	1	04/05/13 13:45	04/07/13 21:05	75-01-4	
Xylene (Total)	ND	mg/kg	0.17	0.019	1	04/05/13 13:45	04/07/13 21:05	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	102 %		57-150		1	04/05/13 13:45	04/07/13 21:05	17060-07-0	
Toluene-d8 (S)	98 %		70-136		1	04/05/13 13:45	04/07/13 21:05	2037-26-5	
4-Bromofluorobenzene (S)	100 %		67-138		1	04/05/13 13:45	04/07/13 21:05	460-00-4	

ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10224318

Sample: HA-18-8 Lab ID: 10224318006 Collected: 04/02/13 09:25 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3550								
PCB-1016 (Aroclor 1016)	ND mg/kg	0.16	0.058	1	04/11/13 13:25	04/12/13 21:47	12674-11-2		
PCB-1221 (Aroclor 1221)	ND mg/kg	0.16	0.062	1	04/11/13 13:25	04/12/13 21:47	11104-28-2		
PCB-1232 (Aroclor 1232)	ND mg/kg	0.16	0.067	1	04/11/13 13:25	04/12/13 21:47	11141-16-5		
PCB-1242 (Aroclor 1242)	ND mg/kg	0.16	0.038	1	04/11/13 13:25	04/12/13 21:47	53469-21-9		
PCB-1248 (Aroclor 1248)	ND mg/kg	0.16	0.034	1	04/11/13 13:25	04/12/13 21:47	12672-29-6		
PCB-1254 (Aroclor 1254)	ND mg/kg	0.16	0.043	1	04/11/13 13:25	04/12/13 21:47	11097-69-1		
PCB-1260 (Aroclor 1260)	ND mg/kg	0.16	0.058	1	04/11/13 13:25	04/12/13 21:47	11096-82-5		
PCB-1262 (Aroclor 1262)	ND mg/kg	0.16	0.019	1	04/11/13 13:25	04/12/13 21:47	37324-23-5		
PCB-1268 (Aroclor 1268)	ND mg/kg	0.16	0.029	1	04/11/13 13:25	04/12/13 21:47	11100-14-4		
Surrogates									
Tetrachloro-m-xylene (S)	75 %	38-125		1	04/11/13 13:25	04/12/13 21:47	877-09-8		
Decachlorobiphenyl (S)	90 %	35-126		1	04/11/13 13:25	04/12/13 21:47	2051-24-3	CH	
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	51.8 mg/kg	40.7	4.5	1	04/08/13 06:52	04/09/13 02:31			T6
Surrogates									
n-Triacontane (S)	75 %	50-150		1	04/08/13 06:52	04/09/13 02:31			
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	ND mg/kg	50.1	4.9	1	04/04/13 11:01	04/04/13 18:37			
Surrogates									
a,a,a-Trifluorotoluene (S)	99 %	80-125		1	04/04/13 11:01	04/04/13 18:37	98-08-8	1M	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	ND mg/kg	4.8	0.80	1	04/05/13 09:37	04/08/13 16:43	7440-38-2		
Barium	42.6 mg/kg	2.4	0.14	1	04/05/13 09:37	04/08/13 16:43	7440-39-3		
Cadmium	ND mg/kg	0.72	0.36	1	04/05/13 09:37	04/08/13 16:43	7440-43-9		
Chromium	ND mg/kg	2.4	0.37	1	04/05/13 09:37	04/08/13 16:43	7440-47-3		
Lead	ND mg/kg	4.8	0.35	1	04/05/13 09:37	04/08/13 16:43	7439-92-1		
Selenium	ND mg/kg	3.6	1.2	1	04/05/13 09:37	04/08/13 16:43	7782-49-2		
Silver	ND mg/kg	2.4	0.16	1	04/05/13 09:37	04/08/13 16:43	7440-22-4		
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg	0.094	0.028	1	04/05/13 08:09	04/08/13 13:39	7439-97-6	M1	
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	79.4 %	0.10	0.10	1			04/04/13 00:00		
8270 MSSV	Analytical Method: EPA 8270 Preparation Method: EPA 3550								
Acenaphthene	ND mg/kg	1.6	0.19	1	04/05/13 14:09	04/07/13 20:53	83-32-9		
Acenaphthylene	ND mg/kg	1.6	0.18	1	04/05/13 14:09	04/07/13 20:53	208-96-8		
Anthracene	ND mg/kg	1.6	0.21	1	04/05/13 14:09	04/07/13 20:53	120-12-7		
Benzidine	ND mg/kg	7.7	3.9	1	04/05/13 14:09	04/07/13 20:53	92-87-5	CL,L2, SS	
Benzo(a)anthracene	ND mg/kg	1.6	0.23	1	04/05/13 14:09	04/07/13 20:53	56-55-3		

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10224318

Sample: HA-18-8 Lab ID: 10224318006 Collected: 04/02/13 09:25 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3550							
Benzo(a)pyrene	ND mg/kg		1.6	0.23	1	04/05/13 14:09	04/07/13 20:53	50-32-8	
Benzo(b)fluoranthene	ND mg/kg		1.6	0.23	1	04/05/13 14:09	04/07/13 20:53	205-99-2	
Benzo(g,h,i)perylene	ND mg/kg		1.6	0.24	1	04/05/13 14:09	04/07/13 20:53	191-24-2	
Benzo(k)fluoranthene	ND mg/kg		1.6	0.22	1	04/05/13 14:09	04/07/13 20:53	207-08-9	
Benzoic acid	ND mg/kg		8.2	2.2	1	04/05/13 14:09	04/07/13 20:53	65-85-0	
Benzyl alcohol	ND mg/kg		1.6	0.24	1	04/05/13 14:09	04/07/13 20:53	100-51-6	L2
4-Bromophenylphenyl ether	ND mg/kg		1.6	0.24	1	04/05/13 14:09	04/07/13 20:53	101-55-3	
Butylbenzylphthalate	ND mg/kg		1.6	0.22	1	04/05/13 14:09	04/07/13 20:53	85-68-7	
4-Chloro-3-methylphenol	ND mg/kg		1.6	0.19	1	04/05/13 14:09	04/07/13 20:53	59-50-7	
4-Chloroaniline	ND mg/kg		1.6	0.34	1	04/05/13 14:09	04/07/13 20:53	106-47-8	CL
bis(2-Chloroethoxy)methane	ND mg/kg		1.6	0.27	1	04/05/13 14:09	04/07/13 20:53	111-91-1	
bis(2-Chloroethyl) ether	ND mg/kg		1.6	0.33	1	04/05/13 14:09	04/07/13 20:53	111-44-4	
bis(2-Chloroisopropyl) ether	ND mg/kg		1.6	0.38	1	04/05/13 14:09	04/07/13 20:53	108-60-1	
2-Chloronaphthalene	ND mg/kg		1.6	0.19	1	04/05/13 14:09	04/07/13 20:53	91-58-7	
2-Chlorophenol	ND mg/kg		1.6	0.35	1	04/05/13 14:09	04/07/13 20:53	95-57-8	
4-Chlorophenylphenyl ether	ND mg/kg		1.6	0.21	1	04/05/13 14:09	04/07/13 20:53	7005-72-3	
Chrysene	ND mg/kg		1.6	0.23	1	04/05/13 14:09	04/07/13 20:53	218-01-9	
Dibenz(a,h)anthracene	ND mg/kg		1.6	0.25	1	04/05/13 14:09	04/07/13 20:53	53-70-3	
Dibenzo furan	ND mg/kg		1.6	0.19	1	04/05/13 14:09	04/07/13 20:53	132-64-9	
1,2-Dichlorobenzene	ND mg/kg		1.6	0.34	1	04/05/13 14:09	04/07/13 20:53	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		1.6	0.37	1	04/05/13 14:09	04/07/13 20:53	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		1.6	0.34	1	04/05/13 14:09	04/07/13 20:53	106-46-7	
3,3'-Dichlorobenzidine	ND mg/kg		1.6	0.80	1	04/05/13 14:09	04/07/13 20:53	91-94-1	
2,4-Dichlorophenol	ND mg/kg		1.6	0.24	1	04/05/13 14:09	04/07/13 20:53	120-83-2	
Diethylphthalate	ND mg/kg		1.6	0.21	1	04/05/13 14:09	04/07/13 20:53	84-66-2	
2,4-Dimethylphenol	ND mg/kg		1.6	0.26	1	04/05/13 14:09	04/07/13 20:53	105-67-9	
Dimethylphthalate	ND mg/kg		1.6	0.22	1	04/05/13 14:09	04/07/13 20:53	131-11-3	
Di-n-butylphthalate	ND mg/kg		1.6	0.16	1	04/05/13 14:09	04/07/13 20:53	84-74-2	
4,6-Dinitro-2-methylphenol	ND mg/kg		8.2	1.3	1	04/05/13 14:09	04/07/13 20:53	534-52-1	
2,4-Dinitrophenol	ND mg/kg		1.6	0.23	1	04/05/13 14:09	04/07/13 20:53	51-28-5	
2,4-Dinitrotoluene	ND mg/kg		1.6	0.27	1	04/05/13 14:09	04/07/13 20:53	121-14-2	
2,6-Dinitrotoluene	ND mg/kg		1.6	0.22	1	04/05/13 14:09	04/07/13 20:53	606-20-2	
Di-n-octylphthalate	ND mg/kg		1.6	0.23	1	04/05/13 14:09	04/07/13 20:53	117-84-0	
bis(2-Ethylhexyl)phthalate	ND mg/kg		1.6	0.37	1	04/05/13 14:09	04/07/13 20:53	117-81-7	
Fluoranthene	ND mg/kg		1.6	0.20	1	04/05/13 14:09	04/07/13 20:53	206-44-0	
Fluorene	ND mg/kg		1.6	0.21	1	04/05/13 14:09	04/07/13 20:53	86-73-7	
Hexachloro-1,3-butadiene	ND mg/kg		1.6	0.40	1	04/05/13 14:09	04/07/13 20:53	87-68-3	
Hexachlorobenzene	ND mg/kg		1.6	0.22	1	04/05/13 14:09	04/07/13 20:53	118-74-1	
Hexachlorocyclopentadiene	ND mg/kg		1.6	0.80	1	04/05/13 14:09	04/07/13 20:53	77-47-4	
Hexachloroethane	ND mg/kg		1.6	0.38	1	04/05/13 14:09	04/07/13 20:53	67-72-1	
Indeno(1,2,3-cd)pyrene	ND mg/kg		1.6	0.23	1	04/05/13 14:09	04/07/13 20:53	193-39-5	
Isophorone	ND mg/kg		1.6	0.19	1	04/05/13 14:09	04/07/13 20:53	78-59-1	
2-Methylnaphthalene	ND mg/kg		1.6	0.24	1	04/05/13 14:09	04/07/13 20:53	91-57-6	
2-Methylphenol(o-Cresol)	ND mg/kg		1.6	0.24	1	04/05/13 14:09	04/07/13 20:53	95-48-7	
3&4-Methylphenol	ND mg/kg		3.2	0.21	1	04/05/13 14:09	04/07/13 20:53		

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10224318

Sample: HA-18-8 Lab ID: 10224318006 Collected: 04/02/13 09:25 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV		Analytical Method: EPA 8270 Preparation Method: EPA 3550							
Naphthalene	ND mg/kg		1.6	0.31	1	04/05/13 14:09	04/07/13 20:53	91-20-3	
2-Nitroaniline	ND mg/kg		1.6	0.22	1	04/05/13 14:09	04/07/13 20:53	88-74-4	
3-Nitroaniline	ND mg/kg		1.6	0.31	1	04/05/13 14:09	04/07/13 20:53	99-09-2	
4-Nitroaniline	ND mg/kg		1.6	0.23	1	04/05/13 14:09	04/07/13 20:53	100-01-6	
Nitrobenzene	ND mg/kg		1.6	0.32	1	04/05/13 14:09	04/07/13 20:53	98-95-3	
2-Nitrophenol	ND mg/kg		1.6	0.26	1	04/05/13 14:09	04/07/13 20:53	88-75-5	
4-Nitrophenol	ND mg/kg		1.6	0.30	1	04/05/13 14:09	04/07/13 20:53	100-02-7	
N-Nitroso-di-n-propylamine	ND mg/kg		1.6	0.25	1	04/05/13 14:09	04/07/13 20:53	621-64-7	
N-Nitrosodiphenylamine	ND mg/kg		1.6	0.23	1	04/05/13 14:09	04/07/13 20:53	86-30-6	
Pentachlorophenol	ND mg/kg		3.2	1.6	1	04/05/13 14:09	04/07/13 20:53	87-86-5	
Phenanthrene	ND mg/kg		1.6	0.21	1	04/05/13 14:09	04/07/13 20:53	85-01-8	
Phenol	ND mg/kg		1.6	0.29	1	04/05/13 14:09	04/07/13 20:53	108-95-2	
Pyrene	ND mg/kg		1.6	0.22	1	04/05/13 14:09	04/07/13 20:53	129-00-0	
1,2,4-Trichlorobenzene	ND mg/kg		1.6	0.33	1	04/05/13 14:09	04/07/13 20:53	120-82-1	
2,4,5-Trichlorophenol	ND mg/kg		1.6	0.27	1	04/05/13 14:09	04/07/13 20:53	95-95-4	
2,4,6-Trichlorophenol	ND mg/kg		1.6	0.24	1	04/05/13 14:09	04/07/13 20:53	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	44 %		30-127		1	04/05/13 14:09	04/07/13 20:53	4165-60-0	
2-Fluorobiphenyl (S)	61 %		42-125		1	04/05/13 14:09	04/07/13 20:53	321-60-8	
Terphenyl-d14 (S)	70 %		51-125		1	04/05/13 14:09	04/07/13 20:53	1718-51-0	
Phenol-d6 (S)	55 %		30-125		1	04/05/13 14:09	04/07/13 20:53	13127-88-3	
2-Fluorophenol (S)	49 %		30-127		1	04/05/13 14:09	04/07/13 20:53	367-12-4	
2,4,6-Tribromophenol (S)	72 %		46-125		1	04/05/13 14:09	04/07/13 20:53	118-79-6	
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND mg/kg		9.9	4.9	1	04/05/13 13:45	04/07/13 21:21	67-64-1	
Allyl chloride	ND mg/kg		2.0	0.41	1	04/05/13 13:45	04/07/13 21:21	107-05-1	
Benzene	ND mg/kg		0.20	0.046	1	04/05/13 13:45	04/07/13 21:21	71-43-2	
Bromobenzene	ND mg/kg		0.49	0.055	1	04/05/13 13:45	04/07/13 21:21	108-86-1	
Bromochloromethane	ND mg/kg		0.49	0.17	1	04/05/13 13:45	04/07/13 21:21	74-97-5	
Bromodichloromethane	ND mg/kg		0.49	0.078	1	04/05/13 13:45	04/07/13 21:21	75-27-4	
Bromoform	ND mg/kg		2.0	0.092	1	04/05/13 13:45	04/07/13 21:21	75-25-2	
Bromomethane	ND mg/kg		4.9	0.33	1	04/05/13 13:45	04/07/13 21:21	74-83-9	
2-Butanone (MEK)	ND mg/kg		2.5	1.2	1	04/05/13 13:45	04/07/13 21:21	78-93-3	
n-Butylbenzene	ND mg/kg		0.49	0.064	1	04/05/13 13:45	04/07/13 21:21	104-51-8	
sec-Butylbenzene	ND mg/kg		0.49	0.041	1	04/05/13 13:45	04/07/13 21:21	135-98-8	
tert-Butylbenzene	ND mg/kg		0.49	0.051	1	04/05/13 13:45	04/07/13 21:21	98-06-6	
Carbon tetrachloride	ND mg/kg		0.49	0.095	1	04/05/13 13:45	04/07/13 21:21	56-23-5	
Chlorobenzene	ND mg/kg		0.49	0.056	1	04/05/13 13:45	04/07/13 21:21	108-90-7	
Chloroethane	ND mg/kg		4.9	0.40	1	04/05/13 13:45	04/07/13 21:21	75-00-3	
Chloroform	ND mg/kg		0.49	0.048	1	04/05/13 13:45	04/07/13 21:21	67-66-3	
Chloromethane	ND mg/kg		2.0	0.47	1	04/05/13 13:45	04/07/13 21:21	74-87-3	
2-Chlorotoluene	ND mg/kg		0.49	0.066	1	04/05/13 13:45	04/07/13 21:21	95-49-8	
4-Chlorotoluene	ND mg/kg		0.49	0.063	1	04/05/13 13:45	04/07/13 21:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		2.0	0.44	1	04/05/13 13:45	04/07/13 21:21	96-12-8	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10224318

Sample: HA-18-8 Lab ID: 10224318006 Collected: 04/02/13 09:25 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Dibromochloromethane	ND mg/kg	0.49	0.041	1	04/05/13 13:45	04/07/13 21:21	124-48-1		
1,2-Dibromoethane (EDB)	ND mg/kg	0.49	0.083	1	04/05/13 13:45	04/07/13 21:21	106-93-4		
Dibromomethane	ND mg/kg	0.49	0.12	1	04/05/13 13:45	04/07/13 21:21	74-95-3		
1,2-Dichlorobenzene	ND mg/kg	0.49	0.057	1	04/05/13 13:45	04/07/13 21:21	95-50-1		
1,3-Dichlorobenzene	ND mg/kg	0.49	0.040	1	04/05/13 13:45	04/07/13 21:21	541-73-1		
1,4-Dichlorobenzene	ND mg/kg	0.49	0.055	1	04/05/13 13:45	04/07/13 21:21	106-46-7		
Dichlorodifluoromethane	ND mg/kg	0.49	0.12	1	04/05/13 13:45	04/07/13 21:21	75-71-8		
1,1-Dichloroethane	ND mg/kg	0.49	0.25	1	04/05/13 13:45	04/07/13 21:21	75-34-3		
1,2-Dichloroethane	ND mg/kg	0.49	0.065	1	04/05/13 13:45	04/07/13 21:21	107-06-2		
1,1-Dichloroethene	ND mg/kg	0.49	0.072	1	04/05/13 13:45	04/07/13 21:21	75-35-4		
cis-1,2-Dichloroethene	ND mg/kg	0.49	0.085	1	04/05/13 13:45	04/07/13 21:21	156-59-2		
trans-1,2-Dichloroethene	ND mg/kg	0.49	0.092	1	04/05/13 13:45	04/07/13 21:21	156-60-5		
Dichlorofluoromethane	ND mg/kg	4.9	0.32	1	04/05/13 13:45	04/07/13 21:21	75-43-4		
1,2-Dichloropropane	ND mg/kg	0.49	0.25	1	04/05/13 13:45	04/07/13 21:21	78-87-5		
1,3-Dichloropropane	ND mg/kg	0.49	0.070	1	04/05/13 13:45	04/07/13 21:21	142-28-9		
2,2-Dichloropropane	ND mg/kg	2.0	0.070	1	04/05/13 13:45	04/07/13 21:21	594-20-7		
1,1-Dichloropropene	ND mg/kg	0.49	0.068	1	04/05/13 13:45	04/07/13 21:21	563-58-6		
cis-1,3-Dichloropropene	ND mg/kg	0.49	0.076	1	04/05/13 13:45	04/07/13 21:21	10061-01-5		
trans-1,3-Dichloropropene	ND mg/kg	0.49	0.083	1	04/05/13 13:45	04/07/13 21:21	10061-02-6		
Diethyl ether (Ethyl ether)	ND mg/kg	2.0	0.43	1	04/05/13 13:45	04/07/13 21:21	60-29-7		
Ethylbenzene	ND mg/kg	0.49	0.041	1	04/05/13 13:45	04/07/13 21:21	100-41-4		
Hexachloro-1,3-butadiene	ND mg/kg	2.5	0.22	1	04/05/13 13:45	04/07/13 21:21	87-68-3		
Isopropylbenzene (Cumene)	ND mg/kg	0.49	0.060	1	04/05/13 13:45	04/07/13 21:21	98-82-8		
p-Isopropyltoluene	ND mg/kg	0.49	0.059	1	04/05/13 13:45	04/07/13 21:21	99-87-6		
Methylene Chloride	ND mg/kg	2.0	0.99	1	04/05/13 13:45	04/07/13 21:21	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND mg/kg	2.5	1.2	1	04/05/13 13:45	04/07/13 21:21	108-10-1		
Methyl-tert-butyl ether	ND mg/kg	0.49	0.089	1	04/05/13 13:45	04/07/13 21:21	1634-04-4		
Naphthalene	ND mg/kg	2.0	0.056	1	04/05/13 13:45	04/07/13 21:21	91-20-3		
n-Propylbenzene	ND mg/kg	0.49	0.050	1	04/05/13 13:45	04/07/13 21:21	103-65-1		
Styrene	ND mg/kg	0.49	0.25	1	04/05/13 13:45	04/07/13 21:21	100-42-5		
1,1,1,2-Tetrachloroethane	ND mg/kg	0.49	0.25	1	04/05/13 13:45	04/07/13 21:21	630-20-6		
1,1,2,2-Tetrachloroethane	ND mg/kg	0.49	0.092	1	04/05/13 13:45	04/07/13 21:21	79-34-5		
Tetrachloroethene	ND mg/kg	0.49	0.070	1	04/05/13 13:45	04/07/13 21:21	127-18-4		
Tetrahydrofuran	ND mg/kg	19.7	1.4	1	04/05/13 13:45	04/07/13 21:21	109-99-9		
Toluene	ND mg/kg	0.49	0.075	1	04/05/13 13:45	04/07/13 21:21	108-88-3		
1,2,3-Trichlorobenzene	ND mg/kg	0.49	0.074	1	04/05/13 13:45	04/07/13 21:21	87-61-6		
1,2,4-Trichlorobenzene	ND mg/kg	0.49	0.093	1	04/05/13 13:45	04/07/13 21:21	120-82-1		
1,1,1-Trichloroethane	ND mg/kg	0.49	0.068	1	04/05/13 13:45	04/07/13 21:21	71-55-6		
1,1,2-Trichloroethane	ND mg/kg	0.49	0.12	1	04/05/13 13:45	04/07/13 21:21	79-00-5		
Trichloroethene	ND mg/kg	0.49	0.086	1	04/05/13 13:45	04/07/13 21:21	79-01-6		
Trichlorofluoromethane	ND mg/kg	2.0	0.17	1	04/05/13 13:45	04/07/13 21:21	75-69-4		
1,2,3-Trichloropropane	ND mg/kg	2.0	0.13	1	04/05/13 13:45	04/07/13 21:21	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND mg/kg	0.49	0.20	1	04/05/13 13:45	04/07/13 21:21	76-13-1		
1,2,4-Trimethylbenzene	ND mg/kg	0.49	0.059	1	04/05/13 13:45	04/07/13 21:21	95-63-6		
1,3,5-Trimethylbenzene	ND mg/kg	0.49	0.059	1	04/05/13 13:45	04/07/13 21:21	108-67-8		

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ANALYTICAL RESULTS

Project: MCES 123840
Pace Project No.: 10224318

Sample: HA-18-8 Lab ID: 10224318006 Collected: 04/02/13 09:25 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Vinyl chloride	ND	mg/kg	0.20	0.074	1	04/05/13 13:45	04/07/13 21:21	75-01-4	
Xylene (Total)	ND	mg/kg	1.5	0.16	1	04/05/13 13:45	04/07/13 21:21	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103 %		57-150		1	04/05/13 13:45	04/07/13 21:21	17060-07-0	
Toluene-d8 (S)	98 %		70-136		1	04/05/13 13:45	04/07/13 21:21	2037-26-5	
4-Bromofluorobenzene (S)	100 %		67-138		1	04/05/13 13:45	04/07/13 21:21	460-00-4	

ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10224318

Sample: Trip Blank Lab ID: 10224318008 Collected: 04/02/13 00:00 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND mg/kg		1.0	0.50	1	04/05/13 13:45	04/07/13 16:05	67-64-1	
Allyl chloride	ND mg/kg		0.20	0.041	1	04/05/13 13:45	04/07/13 16:05	107-05-1	
Benzene	ND mg/kg		0.020	0.0047	1	04/05/13 13:45	04/07/13 16:05	71-43-2	
Bromobenzene	ND mg/kg		0.050	0.0056	1	04/05/13 13:45	04/07/13 16:05	108-86-1	
Bromochloromethane	ND mg/kg		0.050	0.017	1	04/05/13 13:45	04/07/13 16:05	74-97-5	
Bromodichloromethane	ND mg/kg		0.050	0.0079	1	04/05/13 13:45	04/07/13 16:05	75-27-4	
Bromoform	ND mg/kg		0.20	0.0093	1	04/05/13 13:45	04/07/13 16:05	75-25-2	
Bromomethane	ND mg/kg		0.50	0.034	1	04/05/13 13:45	04/07/13 16:05	74-83-9	
2-Butanone (MEK)	ND mg/kg		0.25	0.12	1	04/05/13 13:45	04/07/13 16:05	78-93-3	
n-Butylbenzene	ND mg/kg		0.050	0.0065	1	04/05/13 13:45	04/07/13 16:05	104-51-8	
sec-Butylbenzene	ND mg/kg		0.050	0.0042	1	04/05/13 13:45	04/07/13 16:05	135-98-8	
tert-Butylbenzene	ND mg/kg		0.050	0.0052	1	04/05/13 13:45	04/07/13 16:05	98-06-6	
Carbon tetrachloride	ND mg/kg		0.050	0.0096	1	04/05/13 13:45	04/07/13 16:05	56-23-5	
Chlorobenzene	ND mg/kg		0.050	0.0057	1	04/05/13 13:45	04/07/13 16:05	108-90-7	
Chloroethane	ND mg/kg		0.50	0.041	1	04/05/13 13:45	04/07/13 16:05	75-00-3	
Chloroform	ND mg/kg		0.050	0.0048	1	04/05/13 13:45	04/07/13 16:05	67-66-3	
Chloromethane	ND mg/kg		0.20	0.047	1	04/05/13 13:45	04/07/13 16:05	74-87-3	
2-Chlorotoluene	ND mg/kg		0.050	0.0067	1	04/05/13 13:45	04/07/13 16:05	95-49-8	
4-Chlorotoluene	ND mg/kg		0.050	0.0064	1	04/05/13 13:45	04/07/13 16:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND mg/kg		0.20	0.045	1	04/05/13 13:45	04/07/13 16:05	96-12-8	
Dibromochloromethane	ND mg/kg		0.050	0.0042	1	04/05/13 13:45	04/07/13 16:05	124-48-1	
1,2-Dibromoethane (EDB)	ND mg/kg		0.050	0.0084	1	04/05/13 13:45	04/07/13 16:05	106-93-4	
Dibromomethane	ND mg/kg		0.050	0.012	1	04/05/13 13:45	04/07/13 16:05	74-95-3	
1,2-Dichlorobenzene	ND mg/kg		0.050	0.0058	1	04/05/13 13:45	04/07/13 16:05	95-50-1	
1,3-Dichlorobenzene	ND mg/kg		0.050	0.0040	1	04/05/13 13:45	04/07/13 16:05	541-73-1	
1,4-Dichlorobenzene	ND mg/kg		0.050	0.0056	1	04/05/13 13:45	04/07/13 16:05	106-46-7	
Dichlorodifluoromethane	ND mg/kg		0.050	0.013	1	04/05/13 13:45	04/07/13 16:05	75-71-8	
1,1-Dichloroethane	ND mg/kg		0.050	0.025	1	04/05/13 13:45	04/07/13 16:05	75-34-3	
1,2-Dichloroethane	ND mg/kg		0.050	0.0066	1	04/05/13 13:45	04/07/13 16:05	107-06-2	
1,1-Dichloroethene	ND mg/kg		0.050	0.0073	1	04/05/13 13:45	04/07/13 16:05	75-35-4	
cis-1,2-Dichloroethene	ND mg/kg		0.050	0.0086	1	04/05/13 13:45	04/07/13 16:05	156-59-2	
trans-1,2-Dichloroethene	ND mg/kg		0.050	0.0093	1	04/05/13 13:45	04/07/13 16:05	156-60-5	
Dichlorofluoromethane	ND mg/kg		0.50	0.032	1	04/05/13 13:45	04/07/13 16:05	75-43-4	
1,2-Dichloropropane	ND mg/kg		0.050	0.025	1	04/05/13 13:45	04/07/13 16:05	78-87-5	
1,3-Dichloropropane	ND mg/kg		0.050	0.0071	1	04/05/13 13:45	04/07/13 16:05	142-28-9	
2,2-Dichloropropane	ND mg/kg		0.20	0.0071	1	04/05/13 13:45	04/07/13 16:05	594-20-7	
1,1-Dichloropropene	ND mg/kg		0.050	0.0069	1	04/05/13 13:45	04/07/13 16:05	563-58-6	
cis-1,3-Dichloropropene	ND mg/kg		0.050	0.0078	1	04/05/13 13:45	04/07/13 16:05	10061-01-5	
trans-1,3-Dichloropropene	ND mg/kg		0.050	0.0084	1	04/05/13 13:45	04/07/13 16:05	10061-02-6	
Diethyl ether (Ethyl ether)	ND mg/kg		0.20	0.044	1	04/05/13 13:45	04/07/13 16:05	60-29-7	
Ethylbenzene	ND mg/kg		0.050	0.0042	1	04/05/13 13:45	04/07/13 16:05	100-41-4	
Hexachloro-1,3-butadiene	ND mg/kg		0.25	0.022	1	04/05/13 13:45	04/07/13 16:05	87-68-3	
Isopropylbenzene (Cumene)	ND mg/kg		0.050	0.0060	1	04/05/13 13:45	04/07/13 16:05	98-82-8	
p-Isopropyltoluene	ND mg/kg		0.050	0.0059	1	04/05/13 13:45	04/07/13 16:05	99-87-6	
Methylene Chloride	ND mg/kg		0.20	0.10	1	04/05/13 13:45	04/07/13 16:05	75-09-2	

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ANALYTICAL RESULTS

Project: MCES 123840

Pace Project No.: 10224318

Sample: Trip Blank Lab ID: 10224318008 Collected: 04/02/13 00:00 Received: 04/03/13 16:45 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
4-Methyl-2-pentanone (MIBK)	ND mg/kg		0.25	0.12	1	04/05/13 13:45	04/07/13 16:05	108-10-1	
Methyl-tert-butyl ether	ND mg/kg		0.050	0.0090	1	04/05/13 13:45	04/07/13 16:05	1634-04-4	
Naphthalene	ND mg/kg		0.20	0.0057	1	04/05/13 13:45	04/07/13 16:05	91-20-3	
n-Propylbenzene	ND mg/kg		0.050	0.0050	1	04/05/13 13:45	04/07/13 16:05	103-65-1	
Styrene	ND mg/kg		0.050	0.025	1	04/05/13 13:45	04/07/13 16:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND mg/kg		0.050	0.025	1	04/05/13 13:45	04/07/13 16:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND mg/kg		0.050	0.0093	1	04/05/13 13:45	04/07/13 16:05	79-34-5	
Tetrachloroethylene	ND mg/kg		0.050	0.0071	1	04/05/13 13:45	04/07/13 16:05	127-18-4	
Tetrahydrofuran	ND mg/kg		2.0	0.14	1	04/05/13 13:45	04/07/13 16:05	109-99-9	
Toluene	ND mg/kg		0.050	0.0076	1	04/05/13 13:45	04/07/13 16:05	108-88-3	
1,2,3-Trichlorobenzene	ND mg/kg		0.050	0.0075	1	04/05/13 13:45	04/07/13 16:05	87-61-6	
1,2,4-Trichlorobenzene	ND mg/kg		0.050	0.0094	1	04/05/13 13:45	04/07/13 16:05	120-82-1	
1,1,1-Trichloroethane	ND mg/kg		0.050	0.0069	1	04/05/13 13:45	04/07/13 16:05	71-55-6	
1,1,2-Trichloroethane	ND mg/kg		0.050	0.012	1	04/05/13 13:45	04/07/13 16:05	79-00-5	
Trichloroethylene	ND mg/kg		0.050	0.0087	1	04/05/13 13:45	04/07/13 16:05	79-01-6	
Trichlorofluoromethane	ND mg/kg		0.20	0.018	1	04/05/13 13:45	04/07/13 16:05	75-69-4	
1,2,3-Trichloropropane	ND mg/kg		0.20	0.013	1	04/05/13 13:45	04/07/13 16:05	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND mg/kg		0.050	0.020	1	04/05/13 13:45	04/07/13 16:05	76-13-1	
1,2,4-Trimethylbenzene	ND mg/kg		0.050	0.0060	1	04/05/13 13:45	04/07/13 16:05	95-63-6	
1,3,5-Trimethylbenzene	ND mg/kg		0.050	0.0059	1	04/05/13 13:45	04/07/13 16:05	108-67-8	
Vinyl chloride	ND mg/kg		0.020	0.0075	1	04/05/13 13:45	04/07/13 16:05	75-01-4	
Xylene (Total)	ND mg/kg		0.15	0.017	1	04/05/13 13:45	04/07/13 16:05	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	102 %		57-150		1	04/05/13 13:45	04/07/13 16:05	17060-07-0	
Toluene-d8 (S)	100 %		70-136		1	04/05/13 13:45	04/07/13 16:05	2037-26-5	
4-Bromofluorobenzene (S)	101 %		67-138		1	04/05/13 13:45	04/07/13 16:05	460-00-4	

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10224318

QC Batch:	GCV/10554	Analysis Method:	WI MOD GRO
QC Batch Method:	TPH GRO/PVOC WI ext.	Analysis Description:	WIGRO Solid GCV
Associated Lab Samples:	10224318001, 10224318003, 10224318004, 10224318005, 10224318006		

METHOD BLANK: 1403529 Matrix: Solid

Associated Lab Samples: 10224318001, 10224318003, 10224318004, 10224318005, 10224318006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	5.0	04/04/13 15:20	
a,a,a-Trifluorotoluene (S)	%	100	80-125	04/04/13 15:20	

LABORATORY CONTROL SAMPLE & LCSD: 1403530 1403531

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	50	58.9	49.4	118	99	80-120	18	20	
a,a,a-Trifluorotoluene (S)	%				95	98	80-125			

MATRIX SPIKE SAMPLE: 1403532

Parameter	Units	10224273002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	27.9	60.7	87.4	98	80-120	
a,a,a-Trifluorotoluene (S)	%				97	80-125	

SAMPLE DUPLICATE: 1403533

Parameter	Units	10224273003 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	ND	3.9J		20	
a,a,a-Trifluorotoluene (S)	%	98	98	.03		

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10224318

QC Batch:	MERP/8213	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples:	10224318001, 10224318003, 10224318004, 10224318005, 10224318006		

METHOD BLANK: 1403350 Matrix: Solid

Associated Lab Samples: 10224318001, 10224318003, 10224318004, 10224318005, 10224318006

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Mercury	mg/kg	ND	0.019	04/08/13 12:45	

LABORATORY CONTROL SAMPLE: 1403351

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Mercury	mg/kg	.5	0.51	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1403352 1403353

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		10224195001	Spike										
Mercury	mg/kg	0.10	.47	.5	0.63	0.62	113	104	80-120	1	20		

MATRIX SPIKE SAMPLE: 1403429

Parameter	Units	10224318006	Spike	MS	MS	% Rec	% Rec	Limits	Qualifiers
		Result	Conc.	Result	% Rec				
Mercury	mg/kg	ND	2.2	1.6	74	80-120	M1		

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10224318

QC Batch: MPRP/38351 Analysis Method: EPA 6010

QC Batch Method: EPA 3050 Analysis Description: 6010 MET

Associated Lab Samples: 10224318001, 10224318003, 10224318004, 10224318005, 10224318006

METHOD BLANK: 1403424 Matrix: Solid

Associated Lab Samples: 10224318001, 10224318003, 10224318004, 10224318005, 10224318006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	04/08/13 15:22	
Barium	mg/kg	ND	0.50	04/08/13 15:22	
Cadmium	mg/kg	ND	0.15	04/08/13 15:22	
Chromium	mg/kg	ND	0.50	04/08/13 15:22	
Lead	mg/kg	ND	1.0	04/08/13 15:22	
Selenium	mg/kg	ND	0.75	04/08/13 15:22	
Silver	mg/kg	ND	0.50	04/08/13 15:22	

LABORATORY CONTROL SAMPLE: 1403425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	49.5	43.3	87	80-120	
Barium	mg/kg	49.5	46.8	94	80-120	
Cadmium	mg/kg	49.5	42.6	86	80-120	
Chromium	mg/kg	49.5	47.3	95	80-120	
Lead	mg/kg	49.5	45.1	91	80-120	
Selenium	mg/kg	49.5	41.5	84	80-120	
Silver	mg/kg	24.8	22.1	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1403426 1403427

Parameter	Units	MS		MSD		MS	MSD	% Rec	Limits	RPD	RPD	Max Qual
		10224313001	Spike Result	Spike Conc.	Conc.							
Arsenic	mg/kg	10.1	52.6	48.5	53.1	53.4	82	89	75-125	.5	30	
Barium	mg/kg	58.7	52.6	48.5	102	127	82	142	75-125	22	30	M1
Cadmium	mg/kg	0.47	52.6	48.5	45.0	42.7	85	87	75-125	5	30	
Chromium	mg/kg	9.1	52.6	48.5	55.8	55.1	89	95	75-125	1	30	
Lead	mg/kg	94.4	52.6	48.5	139	170	84	156	75-125	20	30	M1
Selenium	mg/kg	ND	52.6	48.5	43.7	41.9	82	85	75-125	4	30	
Silver	mg/kg	ND	26.3	24.2	24.0	22.6	91	93	75-125	6	30	

MATRIX SPIKE SAMPLE: 1403428

Parameter	Units	10224263002		Spike Conc.	MS Result	MS % Rec	% Rec	Limits	Qualifiers
		Result	Conc.						
Arsenic	mg/kg		5.6	48.1	44.5	81		75-125	
Barium	mg/kg		3070	48.1	3180	228		75-125	M1
Cadmium	mg/kg		ND	48.1	40.5	84		75-125	
Chromium	mg/kg		29.8	48.1	68.3	80		75-125	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10224318

MATRIX SPIKE SAMPLE: 1403428

Parameter	Units	10224263002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	17.0	48.1	54.6	78	75-125	
Selenium	mg/kg	ND	48.1	38.5	80	75-125	
Silver	mg/kg	ND	24.1	22.9	95	75-125	

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10224318

QC Batch: MPRP/38350

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 10224318001, 10224318003, 10224318004, 10224318005, 10224318006

SAMPLE DUPLICATE: 1403392

Parameter	Units	10224307001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.5	12.6	.4	30	

SAMPLE DUPLICATE: 1403408

Parameter	Units	10224291001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.5	12.3	23	30	

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10224318

QC Batch: MSV/23292 Analysis Method: EPA 8260

QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV 5030 Med Level

Associated Lab Samples: 10224318001, 10224318003, 10224318004, 10224318005, 10224318006, 10224318008

METHOD BLANK: 1404559

Matrix: Solid

Associated Lab Samples: 10224318001, 10224318003, 10224318004, 10224318005, 10224318006, 10224318008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.050	04/07/13 15:31	
1,1,1-Trichloroethane	mg/kg	ND	0.050	04/07/13 15:31	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.050	04/07/13 15:31	
1,1,2-Trichloroethane	mg/kg	ND	0.050	04/07/13 15:31	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.050	04/07/13 15:31	
1,1-Dichloroethane	mg/kg	ND	0.050	04/07/13 15:31	
1,1-Dichloroethene	mg/kg	ND	0.050	04/07/13 15:31	
1,1-Dichloropropene	mg/kg	ND	0.050	04/07/13 15:31	
1,2,3-Trichlorobenzene	mg/kg	ND	0.050	04/07/13 15:31	
1,2,3-Trichloropropane	mg/kg	ND	0.20	04/07/13 15:31	
1,2,4-Trichlorobenzene	mg/kg	ND	0.050	04/07/13 15:31	
1,2,4-Trimethylbenzene	mg/kg	ND	0.050	04/07/13 15:31	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.20	04/07/13 15:31	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.050	04/07/13 15:31	
1,2-Dichlorobenzene	mg/kg	ND	0.050	04/07/13 15:31	
1,2-Dichloroethane	mg/kg	ND	0.050	04/07/13 15:31	
1,2-Dichloropropane	mg/kg	ND	0.050	04/07/13 15:31	
1,3,5-Trimethylbenzene	mg/kg	ND	0.050	04/07/13 15:31	
1,3-Dichlorobenzene	mg/kg	ND	0.050	04/07/13 15:31	
1,3-Dichloropropane	mg/kg	ND	0.050	04/07/13 15:31	
1,4-Dichlorobenzene	mg/kg	ND	0.050	04/07/13 15:31	
2,2-Dichloropropane	mg/kg	ND	0.20	04/07/13 15:31	
2-Butanone (MEK)	mg/kg	ND	0.25	04/07/13 15:31	
2-Chlorotoluene	mg/kg	ND	0.050	04/07/13 15:31	
4-Chlorotoluene	mg/kg	ND	0.050	04/07/13 15:31	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.25	04/07/13 15:31	
Acetone	mg/kg	ND	1.0	04/07/13 15:31	
Allyl chloride	mg/kg	ND	0.20	04/07/13 15:31	
Benzene	mg/kg	ND	0.020	04/07/13 15:31	
Bromobenzene	mg/kg	ND	0.050	04/07/13 15:31	
Bromochloromethane	mg/kg	ND	0.050	04/07/13 15:31	
Bromodichloromethane	mg/kg	ND	0.050	04/07/13 15:31	
Bromoform	mg/kg	ND	0.20	04/07/13 15:31	
Bromomethane	mg/kg	ND	0.50	04/07/13 15:31	
Carbon tetrachloride	mg/kg	ND	0.050	04/07/13 15:31	
Chlorobenzene	mg/kg	ND	0.050	04/07/13 15:31	
Chloroethane	mg/kg	ND	0.50	04/07/13 15:31	
Chloroform	mg/kg	ND	0.050	04/07/13 15:31	
Chloromethane	mg/kg	ND	0.20	04/07/13 15:31	
cis-1,2-Dichloroethene	mg/kg	ND	0.050	04/07/13 15:31	
cis-1,3-Dichloropropene	mg/kg	ND	0.050	04/07/13 15:31	
Dibromochloromethane	mg/kg	ND	0.050	04/07/13 15:31	
Dibromomethane	mg/kg	ND	0.050	04/07/13 15:31	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10224318

METHOD BLANK: 1404559

Matrix: Solid

Associated Lab Samples: 10224318001, 10224318003, 10224318004, 10224318005, 10224318006, 10224318008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	mg/kg	ND	0.050	04/07/13 15:31	
Dichlorofluoromethane	mg/kg	ND	0.50	04/07/13 15:31	
Diethyl ether (Ethyl ether)	mg/kg	ND	0.20	04/07/13 15:31	
Ethylbenzene	mg/kg	ND	0.050	04/07/13 15:31	
Hexachloro-1,3-butadiene	mg/kg	ND	0.25	04/07/13 15:31	
Isopropylbenzene (Cumene)	mg/kg	ND	0.050	04/07/13 15:31	
Methyl-tert-butyl ether	mg/kg	ND	0.050	04/07/13 15:31	
Methylene Chloride	mg/kg	ND	0.20	04/07/13 15:31	
n-Butylbenzene	mg/kg	ND	0.050	04/07/13 15:31	
n-Propylbenzene	mg/kg	ND	0.050	04/07/13 15:31	
Naphthalene	mg/kg	ND	0.20	04/07/13 15:31	
p-Isopropyltoluene	mg/kg	ND	0.050	04/07/13 15:31	
sec-Butylbenzene	mg/kg	ND	0.050	04/07/13 15:31	
Styrene	mg/kg	ND	0.050	04/07/13 15:31	
tert-Butylbenzene	mg/kg	ND	0.050	04/07/13 15:31	
Tetrachloroethene	mg/kg	ND	0.050	04/07/13 15:31	
Tetrahydrofuran	mg/kg	ND	2.0	04/07/13 15:31	
Toluene	mg/kg	ND	0.050	04/07/13 15:31	
trans-1,2-Dichloroethene	mg/kg	ND	0.050	04/07/13 15:31	
trans-1,3-Dichloropropene	mg/kg	ND	0.050	04/07/13 15:31	
Trichloroethene	mg/kg	ND	0.050	04/07/13 15:31	
Trichlorofluoromethane	mg/kg	ND	0.20	04/07/13 15:31	
Vinyl chloride	mg/kg	ND	0.020	04/07/13 15:31	
Xylene (Total)	mg/kg	ND	0.15	04/07/13 15:31	
1,2-Dichloroethane-d4 (S)	%	102	57-150	04/07/13 15:31	
4-Bromofluorobenzene (S)	%	101	67-138	04/07/13 15:31	
Toluene-d8 (S)	%	98	70-136	04/07/13 15:31	

LABORATORY CONTROL SAMPLE & LCSD: 1404560

1404561

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	1	0.97	0.98	97	98	72-125	2	20	
1,1,1-Trichloroethane	mg/kg	1	0.94	0.96	94	96	72-125	2	20	
1,1,2,2-Tetrachloroethane	mg/kg	1	0.96	0.99	96	99	73-125	3	20	
1,1,2-Trichloroethane	mg/kg	1	0.94	0.97	94	97	75-125	2	20	
1,1,2-Trichlorotrifluoroethane	mg/kg	1	0.95	0.97	95	97	65-127	2	20	
1,1-Dichloroethane	mg/kg	1	0.93	0.93	93	93	73-125	.7	20	
1,1-Dichloroethene	mg/kg	1	0.92	0.94	92	94	68-125	2	20	
1,1-Dichloropropene	mg/kg	1	0.92	0.93	92	93	71-125	2	20	
1,2,3-Trichlorobenzene	mg/kg	1	0.96	1.0	96	103	66-125	7	20	
1,2,3-Trichloropropane	mg/kg	1	0.96	1.0	96	100	72-125	4	20	
1,2,4-Trichlorobenzene	mg/kg	1	0.95	1.0	95	101	69-125	6	20	
1,2,4-Trimethylbenzene	mg/kg	1	0.93	0.94	93	94	74-125	2	20	
1,2-Dibromo-3-chloropropane	mg/kg	2.5	2.5	2.7	99	108	65-125	8	20	
1,2-Dibromoethane (EDB)	mg/kg	1	0.94	0.96	94	96	75-125	2	20	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10224318

LABORATORY CONTROL SAMPLE & LCSD:		1404561								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dichlorobenzene	mg/kg	1	0.93	0.95	93	95	74-125	2	20	
1,2-Dichloroethane	mg/kg	1	0.94	0.95	94	95	72-125	1	20	
1,2-Dichloropropane	mg/kg	1	0.92	0.94	92	94	74-125	3	20	
1,3,5-Trimethylbenzene	mg/kg	1	0.93	0.95	93	95	73-125	2	20	
1,3-Dichlorobenzene	mg/kg	1	0.93	0.97	93	97	74-125	3	20	
1,3-Dichloropropane	mg/kg	1	0.92	0.97	92	97	75-125	5	20	
1,4-Dichlorobenzene	mg/kg	1	0.93	0.97	93	97	75-125	4	20	
2,2-Dichloropropane	mg/kg	1	0.93	0.96	93	96	62-135	3	20	
2-Butanone (MEK)	mg/kg	5	4.7	4.8	93	97	58-126	4	20	
2-Chlorotoluene	mg/kg	1	0.92	0.94	92	94	74-125	2	20	
4-Chlorotoluene	mg/kg	1	0.92	0.94	92	94	74-125	2	20	
4-Methyl-2-pentanone (MIBK)	mg/kg	5	4.7	4.9	95	98	66-125	3	20	
Acetone	mg/kg	5	5.2	5.2	105	104	63-128	.3	20	
Allyl chloride	mg/kg	1	0.95	0.95	95	95	66-132	.2	20	
Benzene	mg/kg	1	0.90	0.91	90	91	72-125	2	20	
Bromobenzene	mg/kg	1	0.92	0.96	92	96	74-125	5	20	
Bromo(chloromethane	mg/kg	1	0.93	0.96	93	96	72-125	4	20	
Bromodichloromethane	mg/kg	1	0.97	1.0	97	102	72-125	4	20	
Bromoform	mg/kg	1	0.98	0.99	98	99	63-125	1	20	
Bromomethane	mg/kg	1	0.80	0.95	80	95	58-125	17	20	
Carbon tetrachloride	mg/kg	1	0.95	0.97	95	97	66-125	2	20	
Chlorobenzene	mg/kg	1	0.91	0.93	91	93	75-125	2	20	
Chloroethane	mg/kg	1	0.95	0.98	95	98	67-125	3	20	
Chloroform	mg/kg	1	0.92	0.96	92	96	73-125	4	20	
Chloromethane	mg/kg	1	0.88	0.88	88	88	60-125	.1	20	
cis-1,2-Dichloroethene	mg/kg	1	0.96	0.97	96	97	73-125	.6	20	
cis-1,3-Dichloropropene	mg/kg	1	0.95	0.99	95	99	73-125	4	20	
Dibromochloromethane	mg/kg	1	1.0	1.1	102	106	69-125	3	20	
Dibromomethane	mg/kg	1	0.94	0.99	94	99	75-125	6	20	
Dichlorodifluoromethane	mg/kg	1	0.81	0.83	81	83	44-125	2	20	
Dichlorofluoromethane	mg/kg	1	0.96	0.98	96	98	67-142	1	20	
Diethyl ether (Ethyl ether)	mg/kg	1	0.92	0.96	92	96	69-125	5	20	
Ethylbenzene	mg/kg	1	0.91	0.92	91	92	75-125	1	20	
Hexachloro-1,3-butadiene	mg/kg	1	0.99	1.0	99	103	62-126	3	20	
Isopropylbenzene (Cumene)	mg/kg	1	0.92	0.91	92	91	74-125	.4	20	
Methyl-tert-butyl ether	mg/kg	1	0.94	0.97	94	97	71-125	3	20	
Methylene Chloride	mg/kg	1	0.92	0.94	92	94	72-125	2	20	
n-Butylbenzene	mg/kg	1	0.94	0.95	94	95	70-125	1	20	
n-Propylbenzene	mg/kg	1	0.92	0.92	92	92	74-125	.2	20	
Naphthalene	mg/kg	1	0.95	0.98	95	98	69-125	3	20	
p-Isopropyltoluene	mg/kg	1	0.94	0.95	94	95	70-125	2	20	
sec-Butylbenzene	mg/kg	1	0.93	0.94	93	94	71-125	1	20	
Styrene	mg/kg	1	0.93	0.95	93	95	74-125	2	20	
tert-Butylbenzene	mg/kg	1	0.94	0.94	94	94	71-125	.3	20	
Tetrachloroethene	mg/kg	1	0.90	0.92	90	92	73-125	2	20	
Tetrahydrofuran	mg/kg	10	9.1	9.3	91	93	65-125	2	20	
Toluene	mg/kg	1	0.91	0.93	91	93	75-125	3	20	
trans-1,2-Dichloroethene	mg/kg	1	0.94	0.95	94	95	71-125	.7	20	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10224318

LABORATORY CONTROL SAMPLE & LCSD:		1404561									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
trans-1,3-Dichloropropene	mg/kg		1	0.97	1.0	97	101	75-125	4	20	
Trichloroethene	mg/kg		1	0.92	0.94	92	94	74-125	2	20	
Trichlorofluoromethane	mg/kg		1	0.98	0.99	98	99	64-125	.2	20	
Vinyl chloride	mg/kg		1	0.90	0.89	90	89	65-125	.8	20	
Xylene (Total)	mg/kg		3	2.8	2.8	92	93	75-125	2	20	
1,2-Dichloroethane-d4 (S)	%					99	100	57-150			
4-Bromofluorobenzene (S)	%					101	101	67-138			
Toluene-d8 (S)	%					100	101	70-136			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1404562										1404563		
Parameter	Units	10224429001	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual		
1,1,1,2-Tetrachloroethane	mg/kg	ND	1.1	1.1	0.94	0.88	86	80	75-134	7	30			
1,1,1-Trichloroethane	mg/kg	ND	1.1	1.1	0.92	0.97	84	88	71-141	5	30			
1,1,2,2-Tetrachloroethane	mg/kg	ND	1.1	1.1	1.0	1.0	91	91	66-137	.6	30			
1,1,2-Trichloroethane	mg/kg	ND	1.1	1.1	0.95	0.95	87	87	68-139	.5	30			
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	1.1	1.1	0.96	0.98	88	90	59-153	2	30			
1,1-Dichloroethane	mg/kg	ND	1.1	1.1	0.93	0.95	85	87	72-138	2	30			
1,1-Dichloroethene	mg/kg	ND	1.1	1.1	0.93	0.99	85	91	59-143	7	30			
1,1-Dichloropropene	mg/kg	ND	1.1	1.1	0.90	0.96	83	88	68-143	6	30			
1,2,3-Trichlorobenzene	mg/kg	ND	1.1	1.1	1.0	1.0	93	91	65-137	2	30			
1,2,3-Trichloropropane	mg/kg	ND	1.1	1.1	1.0	0.99	93	91	74-133	3	30			
1,2,4-Trichlorobenzene	mg/kg	ND	1.1	1.1	1.0	0.98	93	90	66-138	4	30			
1,2,4-Trimethylbenzene	mg/kg	425	1.1	1.1	1.2	1.1	68	60	74-135	8	30			
		ug/kg							M1					
1,2-Dibromo-3-chloropropane	mg/kg	ND	2.7	2.7	2.8	2.5	101	91	67-137	10	30			
1,2-Dibromoethane (EDB)	mg/kg	ND	1.1	1.1	0.96	0.96	88	88	76-130	.005	30			
1,2-Dichlorobenzene	mg/kg	ND	1.1	1.1	0.93	0.95	85	87	73-134	2	30			
1,2-Dichloroethane	mg/kg	ND	1.1	1.1	0.92	0.93	84	85	66-138	2	30			
1,2-Dichloropropane	mg/kg	ND	1.1	1.1	0.91	0.94	83	85	74-135	3	30			
1,3,5-Trimethylbenzene	mg/kg	111	1.1	1.1	1.0	0.98	81	80	71-139	1	30			
		ug/kg												
1,3-Dichlorobenzene	mg/kg	ND	1.1	1.1	0.95	0.97	87	88	72-134	2	30			
1,3-Dichloropropane	mg/kg	ND	1.1	1.1	0.94	0.94	86	86	75-131	.1	30			
1,4-Dichlorobenzene	mg/kg	ND	1.1	1.1	0.94	0.96	86	88	73-133	2	30			
2,2-Dichloropropane	mg/kg	ND	1.1	1.1	0.95	0.98	87	89	52-153	3	30			
2-Butanone (MEK)	mg/kg	ND	5.5	5.5	4.9	4.6	90	84	59-138	6	30			
2-Chlorotoluene	mg/kg	ND	1.1	1.1	0.93	0.94	85	86	73-135	1	30			
4-Chlorotoluene	mg/kg	ND	1.1	1.1	0.93	0.94	85	86	73-134	.8	30			
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	5.5	5.5	5.0	4.9	91	90	69-136	1	30			
Acetone	mg/kg	ND	5.5	5.5	5.0	5.2	90	96	63-142	6	30			
Allyl chloride	mg/kg	ND	1.1	1.1	0.91	0.92	83	84	64-143	2	30			
Benzene	mg/kg	ND	1.1	1.1	0.90	0.92	82	84	71-137	2	30			
Bromobenzene	mg/kg	ND	1.1	1.1	0.94	0.96	86	87	75-133	2	30			
Bromochemical	mg/kg	ND	1.1	1.1	0.93	0.98	85	89	67-139	5	30			
Bromodichloromethane	mg/kg	ND	1.1	1.1	0.93	0.88	85	80	72-138	6	30			

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10224318

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1404562 1404563

Parameter	Units	10224429001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec	Max	
			Spike Conc.	Spike Conc.						RPD	RPD
Bromoform	mg/kg	ND	1.1	1.1	0.97	0.87	88	79	71-132	11	30
Bromomethane	mg/kg	ND	1.1	1.1	0.89	0.88	81	81	56-134	.5	30
Carbon tetrachloride	mg/kg	ND	1.1	1.1	0.92	0.85	84	77	64-146	8	30
Chlorobenzene	mg/kg	ND	1.1	1.1	0.92	0.94	84	86	75-131	3	30
Chloroethane	mg/kg	ND	1.1	1.1	0.93	0.95	85	87	50-146	2	30
Chloroform	mg/kg	ND	1.1	1.1	0.94	0.98	86	89	72-137	4	30
Chloromethane	mg/kg	ND	1.1	1.1	0.84	0.87	77	79	54-123	3	30
cis-1,2-Dichloroethene	mg/kg	ND	1.1	1.1	0.93	0.97	85	89	70-136	4	30
cis-1,3-Dichloropropene	mg/kg	ND	1.1	1.1	0.95	0.96	87	88	71-137	1	30
Dibromochloromethane	mg/kg	ND	1.1	1.1	1.0	0.92	92	84	69-137	9	30
Dibromomethane	mg/kg	ND	1.1	1.1	0.96	0.99	87	90	73-135	3	30
Dichlorodifluoromethane	mg/kg	ND	1.1	1.1	0.75	0.77	68	71	47-150	4	30
Dichlorofluoromethane	mg/kg	ND	1.1	1.1	0.96	1.0	87	94	30-128	7	30
Diethyl ether (Ethyl ether)	mg/kg	ND	1.1	1.1	0.95	0.96	87	87	62-138	.7	30
Ethylbenzene	mg/kg	ND	1.1	1.1	0.93	0.96	81	84	75-134	3	30
Hexachloro-1,3-butadiene	mg/kg	ND	1.1	1.1	1.0	0.98	95	89	54-150	6	30
Isopropylbenzene (Cumene)	mg/kg	ND	1.1	1.1	0.92	0.94	83	85	75-136	2	30
Methyl-tert-butyl ether	mg/kg	ND	1.1	1.1	0.96	0.97	88	88	65-140	.6	30
Methylene Chloride	mg/kg	ND	1.1	1.1	0.92	0.96	84	87	66-136	4	30
n-Butylbenzene	mg/kg	ND	1.1	1.1	0.99	0.96	87	84	69-141	2	30
n-Propylbenzene	mg/kg	62.6	1.1	1.1	0.96	0.94	82	80	71-140	2	30
	ug/kg										
Naphthalene	mg/kg	ND	1.1	1.1	1.1	1.0	95	89	67-138	6	30
p-Isopropyltoluene	mg/kg	ND	1.1	1.1	0.96	0.95	86	86	65-144	.2	30
sec-Butylbenzene	mg/kg	ND	1.1	1.1	0.95	0.95	85	85	63-146	.4	30
Styrene	mg/kg	ND	1.1	1.1	0.91	0.93	84	85	67-139	2	30
tert-Butylbenzene	mg/kg	ND	1.1	1.1	0.93	0.94	85	86	71-137	1	30
Tetrachloroethene	mg/kg	ND	1.1	1.1	0.90	0.92	83	84	72-138	1	30
Tetrahydrofuran	mg/kg	ND	10.9	10.9	9.6	9.2	87	84	62-139	4	30
Toluene	mg/kg	ND	1.1	1.1	0.91	0.94	82	85	74-133	3	30
trans-1,2-Dichloroethene	mg/kg	ND	1.1	1.1	0.92	0.99	84	91	72-135	8	30
trans-1,3-Dichloropropene	mg/kg	ND	1.1	1.1	0.97	0.95	88	87	66-140	1	30
Trichloroethene	mg/kg	ND	1.1	1.1	0.92	0.96	84	87	72-142	4	30
Trichlorofluoromethane	mg/kg	ND	1.1	1.1	0.96	0.99	88	91	53-146	3	30
Vinyl chloride	mg/kg	ND	1.1	1.1	0.85	0.88	78	80	46-135	3	30
Xylene (Total)	mg/kg	ND	3.3	3.3	2.9	2.9	83	85	75-135	2	30
1,2-Dichloroethane-d4 (S)	%						100	100	57-150		
4-Bromofluorobenzene (S)	%						102	100	67-138		
Toluene-d8 (S)	%						100	99	70-136		

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10224318

QC Batch:	OEXT/21351	Analysis Method:	EPA 8082
QC Batch Method:	EPA 3550	Analysis Description:	8082 GCS PCB
Associated Lab Samples:	10224318001, 10224318005, 10224318006		

METHOD BLANK: 1407801 Matrix: Solid

Associated Lab Samples: 10224318001, 10224318005, 10224318006

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
PCB-1016 (Aroclor 1016)	mg/kg	ND	0.033	04/15/13 13:43	
PCB-1221 (Aroclor 1221)	mg/kg	ND	0.033	04/15/13 13:43	
PCB-1232 (Aroclor 1232)	mg/kg	ND	0.033	04/15/13 13:43	
PCB-1242 (Aroclor 1242)	mg/kg	ND	0.033	04/15/13 13:43	
PCB-1248 (Aroclor 1248)	mg/kg	ND	0.033	04/15/13 13:43	
PCB-1254 (Aroclor 1254)	mg/kg	ND	0.033	04/15/13 13:43	
PCB-1260 (Aroclor 1260)	mg/kg	ND	0.033	04/15/13 13:43	
PCB-1262 (Aroclor 1262)	mg/kg	ND	0.033	04/15/13 13:43	
PCB-1268 (Aroclor 1268)	mg/kg	ND	0.033	04/15/13 13:43	
Decachlorobiphenyl (S)	%	112	35-126	04/15/13 13:43	
Tetrachloro-m-xylene (S)	%	102	38-125	04/15/13 13:43	

LABORATORY CONTROL SAMPLE: 1407802

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
PCB-1016 (Aroclor 1016)	mg/kg	.67	0.60	90	71-125	
PCB-1260 (Aroclor 1260)	mg/kg	.67	0.51	77	65-125	
Decachlorobiphenyl (S)	%			88	35-126	
Tetrachloro-m-xylene (S)	%			83	38-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1407803 1407804

Parameter	Units	MS		MSD		MS	MSD	% Rec	Limits	RPD	RPD	Max
		10224318001	Result	Spike	Conc.	MS	Result	% Rec	% Rec	RPD	RPD	Qual
PCB-1016 (Aroclor 1016)	mg/kg	ND	.69	.69	0.56	0.51	81	73	40-127	10	30	
PCB-1260 (Aroclor 1260)	mg/kg	ND	.69	.69	0.53	0.47	77	68	35-125	13	30	
Decachlorobiphenyl (S)	%						113	86	35-126			
Tetrachloro-m-xylene (S)	%						78	71	38-125			

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10224318

QC Batch:	OEXT/21298	Analysis Method:	EPA 8270
QC Batch Method:	EPA 3550	Analysis Description:	8270 Solid MSSV
Associated Lab Samples:	10224318001, 10224318003, 10224318004, 10224318005, 10224318006		

METHOD BLANK: 1404728 Matrix: Solid

Associated Lab Samples: 10224318001, 10224318003, 10224318004, 10224318005, 10224318006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	ND	0.33	04/07/13 18:58	
1,2-Dichlorobenzene	mg/kg	ND	0.33	04/07/13 18:58	
1,3-Dichlorobenzene	mg/kg	ND	0.33	04/07/13 18:58	
1,4-Dichlorobenzene	mg/kg	ND	0.33	04/07/13 18:58	
2,4,5-Trichlorophenol	mg/kg	ND	0.33	04/07/13 18:58	
2,4,6-Trichlorophenol	mg/kg	ND	0.33	04/07/13 18:58	
2,4-Dichlorophenol	mg/kg	ND	0.33	04/07/13 18:58	
2,4-Dimethylphenol	mg/kg	ND	0.33	04/07/13 18:58	
2,4-Dinitrophenol	mg/kg	ND	0.33	04/07/13 18:58	
2,4-Dinitrotoluene	mg/kg	ND	0.33	04/07/13 18:58	
2,6-Dinitrotoluene	mg/kg	ND	0.33	04/07/13 18:58	
2-Chloronaphthalene	mg/kg	ND	0.33	04/07/13 18:58	
2-Chlorophenol	mg/kg	ND	0.33	04/07/13 18:58	
2-Methylnaphthalene	mg/kg	ND	0.33	04/07/13 18:58	
2-Methylphenol(o-Cresol)	mg/kg	ND	0.33	04/07/13 18:58	
2-Nitroaniline	mg/kg	ND	0.33	04/07/13 18:58	
2-Nitrophenol	mg/kg	ND	0.33	04/07/13 18:58	
3&4-Methylphenol	mg/kg	ND	0.66	04/07/13 18:58	
3,3'-Dichlorobenzidine	mg/kg	ND	0.33	04/07/13 18:58	
3-Nitroaniline	mg/kg	ND	0.33	04/07/13 18:58	
4,6-Dinitro-2-methylphenol	mg/kg	ND	1.7	04/07/13 18:58	
4-Bromophenylphenyl ether	mg/kg	ND	0.33	04/07/13 18:58	
4-Chloro-3-methylphenol	mg/kg	ND	0.33	04/07/13 18:58	
4-Chloroaniline	mg/kg	ND	0.33	04/07/13 18:58	CL
4-Chlorophenylphenyl ether	mg/kg	ND	0.33	04/07/13 18:58	
4-Nitroaniline	mg/kg	ND	0.33	04/07/13 18:58	
4-Nitrophenol	mg/kg	ND	0.33	04/07/13 18:58	
Acenaphthene	mg/kg	ND	0.33	04/07/13 18:58	
Acenaphthylene	mg/kg	ND	0.33	04/07/13 18:58	
Anthracene	mg/kg	ND	0.33	04/07/13 18:58	
Benzidine	mg/kg	ND	1.6	04/07/13 18:58	CL,SS
Benzo(a)anthracene	mg/kg	ND	0.33	04/07/13 18:58	
Benzo(a)pyrene	mg/kg	ND	0.33	04/07/13 18:58	
Benzo(b)fluoranthene	mg/kg	ND	0.33	04/07/13 18:58	
Benzo(g,h,i)perylene	mg/kg	ND	0.33	04/07/13 18:58	
Benzo(k)fluoranthene	mg/kg	ND	0.33	04/07/13 18:58	
Benzoic acid	mg/kg	ND	1.7	04/07/13 18:58	
Benzyl alcohol	mg/kg	ND	0.33	04/07/13 18:58	
bis(2-Chloroethoxy)methane	mg/kg	ND	0.33	04/07/13 18:58	
bis(2-Chloroethyl) ether	mg/kg	ND	0.33	04/07/13 18:58	
bis(2-Chloroisopropyl) ether	mg/kg	ND	0.33	04/07/13 18:58	
bis(2-Ethylhexyl)phthalate	mg/kg	ND	0.33	04/07/13 18:58	
Butylbenzylphthalate	mg/kg	ND	0.33	04/07/13 18:58	

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10224318

METHOD BLANK: 1404728

Matrix: Solid

Associated Lab Samples: 10224318001, 10224318003, 10224318004, 10224318005, 10224318006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chrysene	mg/kg	ND	0.33	04/07/13 18:58	
Di-n-butylphthalate	mg/kg	ND	0.33	04/07/13 18:58	
Di-n-octylphthalate	mg/kg	ND	0.33	04/07/13 18:58	
Dibenz(a,h)anthracene	mg/kg	ND	0.33	04/07/13 18:58	
Dibenzofuran	mg/kg	ND	0.33	04/07/13 18:58	
Diethylphthalate	mg/kg	ND	0.33	04/07/13 18:58	
Dimethylphthalate	mg/kg	ND	0.33	04/07/13 18:58	
Fluoranthene	mg/kg	ND	0.33	04/07/13 18:58	
Fluorene	mg/kg	ND	0.33	04/07/13 18:58	
Hexachloro-1,3-butadiene	mg/kg	ND	0.33	04/07/13 18:58	
Hexachlorobenzene	mg/kg	ND	0.33	04/07/13 18:58	
Hexachlorocyclopentadiene	mg/kg	ND	0.33	04/07/13 18:58	
Hexachloroethane	mg/kg	ND	0.33	04/07/13 18:58	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.33	04/07/13 18:58	
Isophorone	mg/kg	ND	0.33	04/07/13 18:58	
N-Nitroso-di-n-propylamine	mg/kg	ND	0.33	04/07/13 18:58	
N-Nitrosodiphenylamine	mg/kg	ND	0.33	04/07/13 18:58	
Naphthalene	mg/kg	ND	0.33	04/07/13 18:58	
Nitrobenzene	mg/kg	ND	0.33	04/07/13 18:58	
Pentachlorophenol	mg/kg	ND	0.67	04/07/13 18:58	
Phenanthrene	mg/kg	ND	0.33	04/07/13 18:58	
Phenol	mg/kg	ND	0.33	04/07/13 18:58	
Pyrene	mg/kg	ND	0.33	04/07/13 18:58	
2,4,6-Tribromophenol (S)	%	57	46-125	04/07/13 18:58	
2-Fluorobiphenyl (S)	%	55	42-125	04/07/13 18:58	
2-Fluorophenol (S)	%	53	30-127	04/07/13 18:58	
Nitrobenzene-d5 (S)	%	50	30-127	04/07/13 18:58	
Phenol-d6 (S)	%	53	30-125	04/07/13 18:58	
Terphenyl-d14 (S)	%	69	51-125	04/07/13 18:58	

LABORATORY CONTROL SAMPLE: 1404729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	1.7	0.87	52	33-125	
1,2-Dichlorobenzene	mg/kg	1.7	0.83	50	30-125	
1,3-Dichlorobenzene	mg/kg	1.7	0.81	49	30-125	
1,4-Dichlorobenzene	mg/kg	1.7	0.82	49	30-125	
2,4,5-Trichlorophenol	mg/kg	1.7	1.2	72	51-125	
2,4,6-Trichlorophenol	mg/kg	1.7	1.2	70	49-125	
2,4-Dichlorophenol	mg/kg	1.7	1.1	63	45-125	
2,4-Dimethylphenol	mg/kg	1.7	0.98	59	41-125	
2,4-Dinitrophenol	mg/kg	1.7	1.2	71	30-125	
2,4-Dinitrotoluene	mg/kg	1.7	1.3	76	51-125	
2,6-Dinitrotoluene	mg/kg	1.7	1.2	73	51-125	
2-Chloronaphthalene	mg/kg	1.7	1.1	63	47-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10224318

LABORATORY CONTROL SAMPLE: 1404729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chlorophenol	mg/kg	1.7	0.85	51	34-125	
2-Methylnaphthalene	mg/kg	1.7	0.97	58	42-125	
2-Methylphenol(o-Cresol)	mg/kg	1.7	0.94	57	40-125	
2-Nitroaniline	mg/kg	1.7	1.2	69	48-125	
2-Nitrophenol	mg/kg	1.7	0.89	54	36-125	
3&4-Methylphenol	mg/kg	1.7	1.0	60	45-125	
3,3'-Dichlorobenzidine	mg/kg	1.7	1.1	66	33-125	
3-Nitroaniline	mg/kg	1.7	1.0	63	41-125	
4,6-Dinitro-2-methylphenol	mg/kg	1.7	1.3J	75	30-131	
4-Bromophenylphenyl ether	mg/kg	1.7	1.2	72	52-125	
4-Chloro-3-methylphenol	mg/kg	1.7	1.2	70	50-125	
4-Chloroaniline	mg/kg	1.7	0.53	32	30-125 CL	
4-Chlorophenylphenyl ether	mg/kg	1.7	1.2	73	50-125	
4-Nitroaniline	mg/kg	1.7	1.2	71	45-125	
4-Nitrophenol	mg/kg	1.7	1.2	72	41-125	
Acenaphthene	mg/kg	1.7	1.1	67	48-125	
Acenaphthylene	mg/kg	1.7	1.1	68	48-125	
Anthracene	mg/kg	1.7	1.2	73	53-125	
Benzidine	mg/kg	1.7	ND	3	30-125 CL,L0,SS	
Benzo(a)anthracene	mg/kg	1.7	1.2	74	54-125	
Benzo(a)pyrene	mg/kg	1.7	1.2	74	51-125	
Benzo(b)fluoranthene	mg/kg	1.7	1.2	74	49-125	
Benzo(g,h,i)perylene	mg/kg	1.7	1.3	76	62-125	
Benzo(k)fluoranthene	mg/kg	1.7	1.3	78	54-125	
Benzoic acid	mg/kg	1.7	.98J	59	33-125	
Benzyl alcohol	mg/kg	1.7	0.82	49	52-125 L0	
bis(2-Chloroethoxy)methane	mg/kg	1.7	0.93	56	42-125	
bis(2-Chloroethyl) ether	mg/kg	1.7	0.84	50	30-125	
bis(2-Chloroisopropyl) ether	mg/kg	1.7	0.76	46	30-131	
bis(2-Ethylhexyl)phthalate	mg/kg	1.7	1.2	73	50-125	
Butylbenzylphthalate	mg/kg	1.7	1.2	73	49-125	
Chrysene	mg/kg	1.7	1.3	75	55-125	
Di-n-butylphthalate	mg/kg	1.7	1.2	75	54-125	
Di-n-octylphthalate	mg/kg	1.7	1.2	73	48-125	
Dibenz(a,h)anthracene	mg/kg	1.7	1.3	76	52-125	
Dibenzofuran	mg/kg	1.7	1.2	71	50-125	
Diethylphthalate	mg/kg	1.7	1.2	74	52-125	
Dimethylphthalate	mg/kg	1.7	1.2	73	52-125	
Fluoranthene	mg/kg	1.7	1.3	76	52-125	
Fluorene	mg/kg	1.7	1.2	72	51-125	
Hexachloro-1,3-butadiene	mg/kg	1.7	0.83	50	30-125	
Hexachlorobenzene	mg/kg	1.7	1.2	75	51-125	
Hexachlorocyclopentadiene	mg/kg	1.7	0.77	46	37-125	
Hexachloroethane	mg/kg	1.7	0.78	47	30-125	
Indeno(1,2,3-cd)pyrene	mg/kg	1.7	1.3	76	52-125	
Isophorone	mg/kg	1.7	0.98	59	43-125	
N-Nitroso-di-n-propylamine	mg/kg	1.7	0.90	54	39-125	
N-Nitrosodiphenylamine	mg/kg	1.7	1.2	72	53-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10224318

LABORATORY CONTROL SAMPLE: 1404729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	mg/kg	1.7	0.87	52	36-125	
Nitrobenzene	mg/kg	1.7	0.85	51	35-125	
Pentachlorophenol	mg/kg	1.7	1.2	72	38-125	
Phenanthrene	mg/kg	1.7	1.2	74	53-125	
Phenol	mg/kg	1.7	0.89	54	36-125	
Pyrene	mg/kg	1.7	1.2	73	51-125	
2,4,6-Tribromophenol (S)	%			75	46-125	
2-Fluorobiphenyl (S)	%			61	42-125	
2-Fluorophenol (S)	%			48	30-127	
Nitrobenzene-d5 (S)	%			47	30-127	
Phenol-d6 (S)	%			50	30-125	
Terphenyl-d14 (S)	%			70	51-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1404730 1404731

Parameter	Units	MS Spike		MSD Spike		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10224318001	Result	Conc.	Conc.								
1,2,4-Trichlorobenzene	mg/kg	ND	1.8	1.8	0.95	0.96	55	55	49-125	.6	30		
1,2-Dichlorobenzene	mg/kg	ND	1.8	1.8	0.71	0.83	41	48	42-125	15	30	M1	
1,3-Dichlorobenzene	mg/kg	ND	1.8	1.8	0.67	0.79	39	46	39-125	17	30		
1,4-Dichlorobenzene	mg/kg	ND	1.8	1.8	0.68	0.80	39	46	40-125	16	30	M1	
2,4,5-Trichlorophenol	mg/kg	ND	1.8	1.8	1.3	1.3	77	73	50-125	5	30		
2,4,6-Trichlorophenol	mg/kg	ND	1.8	1.8	1.3	1.3	76	73	53-125	5	30		
2,4-Dichlorophenol	mg/kg	ND	1.8	1.8	1.3	1.2	74	69	52-125	7	30		
2,4-Dimethylphenol	mg/kg	ND	1.8	1.8	1.1	1.1	65	64	50-125	1	30		
2,4-Dinitrophenol	mg/kg	ND	1.8	1.8	1.2	1.2	72	69	30-125	4	30		
2,4-Dinitrotoluene	mg/kg	ND	1.8	1.8	1.4	1.3	79	76	39-125	5	30		
2,6-Dinitrotoluene	mg/kg	ND	1.8	1.8	1.3	1.3	77	74	45-125	5	30		
2-Chloronaphthalene	mg/kg	ND	1.8	1.8	1.2	1.2	71	67	55-125	6	30		
2-Chlorophenol	mg/kg	ND	1.8	1.8	0.92	0.96	53	56	47-125	5	30		
2-Methylnaphthalene	mg/kg	ND	1.8	1.8	1.2	1.1	68	64	52-125	6	30		
2-Methylphenol(o-Cresol)	mg/kg	ND	1.8	1.8	1.1	1.1	66	63	53-125	4	30		
2-Nitroaniline	mg/kg	ND	1.8	1.8	1.2	1.2	71	69	45-125	4	30		
2-Nitrophenol	mg/kg	ND	1.8	1.8	1.1	1.0	62	61	36-125	2	30		
3&4-Methylphenol	mg/kg	ND	1.8	1.8	1.2	1.1	69	66	53-125	5	30		
3,3'-Dichlorobenzidine	mg/kg	ND	1.8	1.8	1.0	1.1	59	64	30-125	8	30		
3-Nitroaniline	mg/kg	ND	1.8	1.8	0.93	0.96	53	55	37-125	3	30		
4,6-Dinitro-2-methylphenol	mg/kg	ND	1.8	1.8	1.3J	1.3J	77	74	30-125		30		
4-Bromophenylphenyl ether	mg/kg	ND	1.8	1.8	1.3	1.3	76	73	57-125	5	30		
4-Chloro-3-methylphenol	mg/kg	ND	1.8	1.8	1.3	1.2	76	71	52-125	7	30		
4-Chloroaniline	mg/kg	ND	1.8	1.8	0.35	0.45	20	26	30-125	27	30	CL,M1	
4-Chlorophenylphenyl ether	mg/kg	ND	1.8	1.8	1.3	1.3	77	73	55-125	5	30		
4-Nitroaniline	mg/kg	ND	1.8	1.8	1.2	1.1	68	66	41-125	2	30		
4-Nitrophenol	mg/kg	ND	1.8	1.8	1.3	1.2	75	71	43-125	6	30		
Acenaphthene	mg/kg	ND	1.8	1.8	1.3	1.2	74	70	51-125	6	30		
Acenaphthylene	mg/kg	ND	1.8	1.8	1.6	1.4	95	83	54-125	14	30		
Anthracene	mg/kg	ND	1.8	1.8	1.4	1.3	79	72	51-125	8	30		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10224318

Parameter	Units	10224318001		MSD		1404730		1404731		Max		
		Result	Spike Conc.	MS	Spike Conc.	MS	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD RPD	Qual
				Conc.	Conc.	Result	Result	% Rec	RPD	RPD	CL,M0	
Benzidine	mg/kg	ND	1.8	1.8	ND	ND	0	3	30-125	30		
Benzo(a)anthracene	mg/kg	0.41	1.8	1.8	2.1	1.6	96	70	54-125	24	30	
Benzo(a)pyrene	mg/kg	0.68	1.8	1.8	2.5	1.9	105	70	53-125	28	30	
Benzo(b)fluoranthene	mg/kg	0.86	1.8	1.8	2.7	1.9	107	63	51-125	33	30 R1	
Benzo(g,h,i)perylene	mg/kg	0.55	1.8	1.8	2.3	1.8	101	72	43-125	24	30	
Benzo(k)fluoranthene	mg/kg	0.35	1.8	1.8	2.0	1.7	98	77	51-125	20	30	
Benzoic acid	mg/kg	ND	1.8	1.8	1.2J	1J	68	58	30-125		30	
Benzyl alcohol	mg/kg	ND	1.8	1.8	0.96	0.92	55	53	51-125	3	30	
bis(2-Chloroethoxy)methane	mg/kg	ND	1.8	1.8	1.1	1.0	62	61	49-125	3	30	
bis(2-Chloroethyl) ether	mg/kg	ND	1.8	1.8	0.74	0.86	43	50	39-125	15	30	
bis(2-Chloroisopropyl) ether	mg/kg	ND	1.8	1.8	0.68	0.77	39	45	36-125	13	30	
bis(2-Ethylhexyl)phthalate	mg/kg	ND	1.8	1.8	1.4	1.3	80	75	46-125	6	30	
Butylbenzylphthalate	mg/kg	ND	1.8	1.8	1.4	1.3	81	75	49-125	8	30	
Chrysene	mg/kg	0.45	1.8	1.8	2.1	1.7	97	70	53-125	25	30	
Di-n-butylphthalate	mg/kg	ND	1.8	1.8	1.3	1.3	78	75	56-125	4	30	
Di-n-octylphthalate	mg/kg	ND	1.8	1.8	1.4	1.3	82	76	48-125	8	30	
Dibenz(a,h)anthracene	mg/kg	ND	1.8	1.8	1.6	1.4	83	73	52-125	12	30	
Dibenzofuran	mg/kg	ND	1.8	1.8	1.3	1.2	76	72	55-125	6	30	
Diethylphthalate	mg/kg	ND	1.8	1.8	1.3	1.3	77	73	57-125	5	30	
Dimethylphthalate	mg/kg	ND	1.8	1.8	1.3	1.3	76	73	56-125	5	30	
Fluoranthene	mg/kg	0.36	1.8	1.8	2.0	1.6	94	74	51-125	20	30	
Fluorene	mg/kg	ND	1.8	1.8	1.3	1.3	78	73	54-125	7	30	
Hexachloro-1,3-butadiene	mg/kg	ND	1.8	1.8	0.83	0.90	48	52	45-125	8	30	
Hexachlorobenzene	mg/kg	ND	1.8	1.8	1.3	1.3	77	74	53-125	4	30	
Hexachlorocyclopentadiene	mg/kg	ND	1.8	1.8	0.48	0.55	28	32	30-125	14	30 M1	
Hexachloroethane	mg/kg	ND	1.8	1.8	0.55	0.71	32	41	30-125	25	30	
Indeno(1,2,3-cd)pyrene	mg/kg	0.43	1.8	1.8	2.1	1.7	98	73	46-125	22	30	
Isophorone	mg/kg	ND	1.8	1.8	1.1	1.0	64	60	50-125	6	30	
N-Nitroso-di-n-propylamine	mg/kg	ND	1.8	1.8	1.0	0.99	58	57	30-125	2	30	
N-Nitrosodiphenylamine	mg/kg	ND	1.8	1.8	1.3	1.2	75	71	54-125	5	30	
Naphthalene	mg/kg	ND	1.8	1.8	1.0	0.99	58	57	48-125	.3	30	
Nitrobenzene	mg/kg	ND	1.8	1.8	0.94	0.93	54	54	48-125	.6	30	
Pentachlorophenol	mg/kg	ND	1.8	1.8	1.3	1.3	76	73	30-125	5	30	
Phenanthrene	mg/kg	ND	1.8	1.8	1.4	1.3	77	72	53-125	7	30	
Phenol	mg/kg	ND	1.8	1.8	1.1	1.0	61	60	50-125	2	30	
Pyrene	mg/kg	0.47	1.8	1.8	2.1	1.7	93	68	49-125	23	30	
2,4,6-Tribromophenol (S)	%						79	73	46-125			
2-Fluorobiphenyl (S)	%						67	63	42-125			
2-Fluorophenol (S)	%						43	49	30-127			
Nitrobenzene-d5 (S)	%						48	49	30-127			
Phenol-d6 (S)	%						57	56	30-125			
Terphenyl-d14 (S)	%						75	68	51-125			

QUALITY CONTROL DATA

Project: MCES 123840

Pace Project No.: 10224318

QC Batch: OEXT/21308 Analysis Method: WI MOD DRO

QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS

Associated Lab Samples: 10224318001, 10224318003, 10224318004, 10224318005, 10224318006

METHOD BLANK: 1405331 Matrix: Solid

Associated Lab Samples: 10224318001, 10224318003, 10224318004, 10224318005, 10224318006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	ND	10.0	04/09/13 01:01	
n-Triacontane (S)	%	74	50-150	04/09/13 01:01	

LABORATORY CONTROL SAMPLE & LCSD: 1405332 1405333

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/kg	80	66.4	71.1	83	89	70-120	7	20	
n-Triacontane (S)	%				78	90	50-150			

QUALIFIERS

Project: MCES 123840
Pace Project No.: 10224318

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1M	Sample absorbed all original methanol in vial. An additional 10 mLs of methanol were added in order to run sample.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.
T6	High boiling point hydrocarbons are present in the sample.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCES 123840
Pace Project No.: 10224318

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10224318001	HA-16-2.5	EPA 3550	OEXT/21351	EPA 8082	GCSV/11124
10224318005	HA-18-3	EPA 3550	OEXT/21351	EPA 8082	GCSV/11124
10224318006	HA-18-8	EPA 3550	OEXT/21351	EPA 8082	GCSV/11124
10224318001	HA-16-2.5	WI MOD DRO	OEXT/21308	WI MOD DRO	GCSV/11087
10224318003	HA-17-2.5	WI MOD DRO	OEXT/21308	WI MOD DRO	GCSV/11087
10224318004	HA-17-12	WI MOD DRO	OEXT/21308	WI MOD DRO	GCSV/11087
10224318005	HA-18-3	WI MOD DRO	OEXT/21308	WI MOD DRO	GCSV/11087
10224318006	HA-18-8	WI MOD DRO	OEXT/21308	WI MOD DRO	GCSV/11087
10224318001	HA-16-2.5	TPH GRO/PVOC WI ext.	GCV/10554	WI MOD GRO	GCV/10555
10224318003	HA-17-2.5	TPH GRO/PVOC WI ext.	GCV/10554	WI MOD GRO	GCV/10555
10224318004	HA-17-12	TPH GRO/PVOC WI ext.	GCV/10554	WI MOD GRO	GCV/10555
10224318005	HA-18-3	TPH GRO/PVOC WI ext.	GCV/10554	WI MOD GRO	GCV/10555
10224318006	HA-18-8	TPH GRO/PVOC WI ext.	GCV/10554	WI MOD GRO	GCV/10555
10224318001	HA-16-2.5	EPA 3050	MPRP/38351	EPA 6010	ICP/16041
10224318003	HA-17-2.5	EPA 3050	MPRP/38351	EPA 6010	ICP/16041
10224318004	HA-17-12	EPA 3050	MPRP/38351	EPA 6010	ICP/16041
10224318005	HA-18-3	EPA 3050	MPRP/38351	EPA 6010	ICP/16041
10224318006	HA-18-8	EPA 3050	MPRP/38351	EPA 6010	ICP/16041
10224318001	HA-16-2.5	EPA 7471	MERP/8213	EPA 7471	MERC/9310
10224318003	HA-17-2.5	EPA 7471	MERP/8213	EPA 7471	MERC/9310
10224318004	HA-17-12	EPA 7471	MERP/8213	EPA 7471	MERC/9310
10224318005	HA-18-3	EPA 7471	MERP/8213	EPA 7471	MERC/9310
10224318006	HA-18-8	EPA 7471	MERP/8213	EPA 7471	MERC/9310
10224318001	HA-16-2.5	ASTM D2974	MPRP/38350		
10224318003	HA-17-2.5	ASTM D2974	MPRP/38350		
10224318004	HA-17-12	ASTM D2974	MPRP/38350		
10224318005	HA-18-3	ASTM D2974	MPRP/38350		
10224318006	HA-18-8	ASTM D2974	MPRP/38350		
10224318001	HA-16-2.5	EPA 3550	OEXT/21298	EPA 8270	MSSV/9134
10224318003	HA-17-2.5	EPA 3550	OEXT/21298	EPA 8270	MSSV/9134
10224318004	HA-17-12	EPA 3550	OEXT/21298	EPA 8270	MSSV/9134
10224318005	HA-18-3	EPA 3550	OEXT/21298	EPA 8270	MSSV/9134
10224318006	HA-18-8	EPA 3550	OEXT/21298	EPA 8270	MSSV/9134
10224318001	HA-16-2.5	EPA 5035/5030B	MSV/23292	EPA 8260	MSV/23294
10224318003	HA-17-2.5	EPA 5035/5030B	MSV/23292	EPA 8260	MSV/23294
10224318004	HA-17-12	EPA 5035/5030B	MSV/23292	EPA 8260	MSV/23294
10224318005	HA-18-3	EPA 5035/5030B	MSV/23292	EPA 8260	MSV/23294
10224318006	HA-18-8	EPA 5035/5030B	MSV/23292	EPA 8260	MSV/23294
10224318008	Trip Blank	EPA 5035/5030B	MSV/23292	EPA 8260	MSV/23294

Data File: 040813000082.D

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Report Date: 09-Apr-2013 08:29

Pace Analytical Services

WI Dept of Nat. Resources- WIDRO

Data file : \\192.168.10.12\chem\10gcs9.i\040813dro.b\040813000082.D

Lab Smp Id: 10224318001

Inj Date : 09-APR-2013 02:24

Operator : MT Inst ID: 10gcs9.i

Smp Info : 10224318001

Misc Info : 11087

Comment : C10-C28 DRO

Method : \\192.168.10.12\chem\10gcs9.i\040813dro.b\WDRO9-032213.m

Meth Date : 09-Apr-2013 06:55 mthao Quant Type: ESTD

Cal Date : 22-MAR-2013 15:41 Cal File: 032213000030.D

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie Compound Sublist: dro.sub

Target Version: 4.14

Processing Host: 10VOA3

Concentration Formula: Amt * DF * Uf * Vt/(Ws * Vi*(100-M)/100) * CpndVariable

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	1.000	Volume of final extract (mL)
Ws	25.000	Weight of sample extracted (g)
Vi	1.000	Volume injected (uL)
M	0.00000	% Moisture
Cpnd	Variable	Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/kg)
=====	====	=====	=====	=====	=====	=====
S 1 Diesel Range Organics	0.870-2.069			194429755	619.419	24.8
\$ 2 n-Triacontane (S)	2.151	2.134	0.017	23029081	91.8141	3.67(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10gcs9.i\040813dro.b\040813000082.D

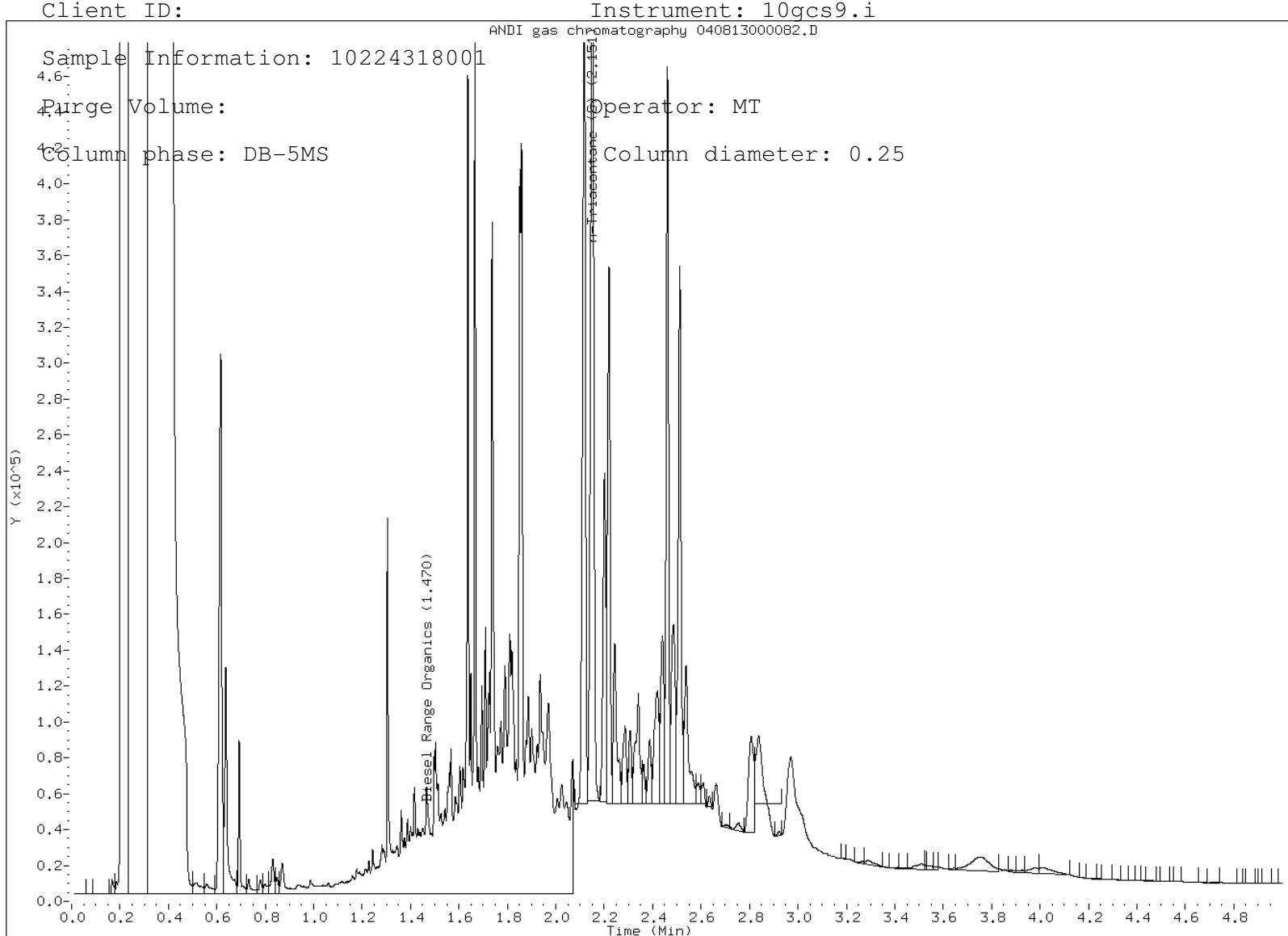
Report Date: 04/09/2013

Sample ID: 10224318001

Client ID:

Instrument: 10gcs9.i

ANDI gas chromatography 040813000082.D



Data File: 040813000088.D

Page 1

Report Date: 09-Apr-2013 08:39

Pace Analytical Services

WI Dept of Nat. Resources- WIDRO

Data file : \\192.168.10.12\chem\10gcs9.i\040813dro.b\040813000088.D

Lab Smp Id: 10224318005

Inj Date : 09-APR-2013 03:05

Operator : MT Inst ID: 10gcs9.i

Smp Info : 10224318005

Misc Info : 11087

Comment : C10-C28 DRO

Method : \\192.168.10.12\chem\10gcs9.i\040813dro.b\WDRO9-032213.m

Meth Date : 09-Apr-2013 06:55 mthao Quant Type: ESTD

Cal Date : 22-MAR-2013 15:41 Cal File: 032213000030.D

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie Compound Sublist: dro.sub

Target Version: 4.14

Processing Host: 10VOA3

Concentration Formula: Amt * DF * Uf * Vt/(Ws * Vi*(100-M)/100) * CpndVariable

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	1.000	Volume of final extract (mL)
Ws	25.000	Weight of sample extracted (g)
Vi	1.000	Volume injected (uL)
M	0.00000	% Moisture
Cpnd	Variable	Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/kg)
=====	====	=====	=====	=====	=====	=====
S 1 Diesel Range Organics	0.870-2.069			494621683	1580.86	63.2
\$ 2 n-Triacontane (S)	2.156	2.134	0.022	30930696	123.317	4.93(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10gcs9.i\040813dro.b\040813000088.D

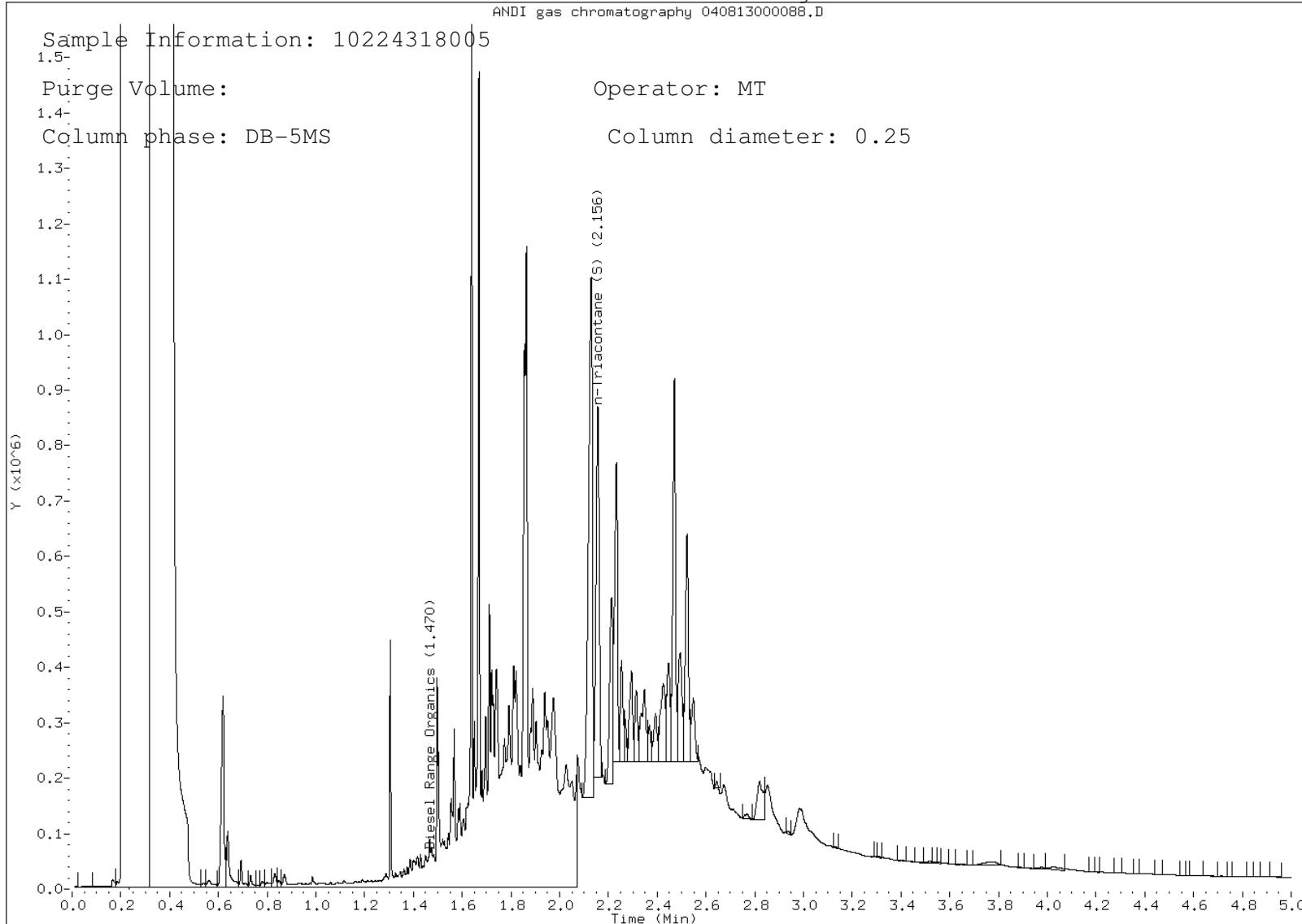
Report Date: 04/09/2013

Sample ID: 10224318005

Client ID:

Instrument: 10gcs9.i

ANDI gas chromatography 040813000088.D



Data File: 040813000083.D

Page 1

Report Date: 09-Apr-2013 08:30

Pace Analytical Services

WI Dept of Nat. Resources- WIDRO

Data file : \\192.168.10.12\chem\10gcs9.i\040813dro.b\040813000083.D

Lab Smp Id: 10224318006

Inj Date : 09-APR-2013 02:31

Operator : MT Inst ID: 10gcs9.i

Smp Info : 10224318006

Misc Info : 11087

Comment : C10-C28 DRO

Method : \\192.168.10.12\chem\10gcs9.i\040813dro.b\WDRO9-032213.m

Meth Date : 09-Apr-2013 06:55 mthao Quant Type: ESTD

Cal Date : 22-MAR-2013 15:41 Cal File: 032213000030.D

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie Compound Sublist: dro.sub

Target Version: 4.14

Processing Host: 10VOA3

Concentration Formula: Amt * DF * Uf * Vt/(Ws * Vi*(100-M)/100) * CpndVariable

Name	Value	Description
------	-------	-------------

DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	1.000	Volume of final extract (mL)
Ws	25.000	Weight of sample extracted (g)
Vi	1.000	Volume injected (uL)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COLUMN FINAL

Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/kg)
=====	====	=====	=====	=====	=====	=====
S 1 Diesel Range Organics	0.870-2.069			100290215	317.913	12.7
\$ 2 n-Triacontane (S)	2.151	2.134	0.017	23576987	93.9985	3.76 (aM)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10gcs9.i\040813dro.b\040813000083.D

Report Date: 04/09/2013

Sample ID: 10224318006

Client ID:

Instrument: 10gcs9.i

ANDI gas chromatography 040813000083.D

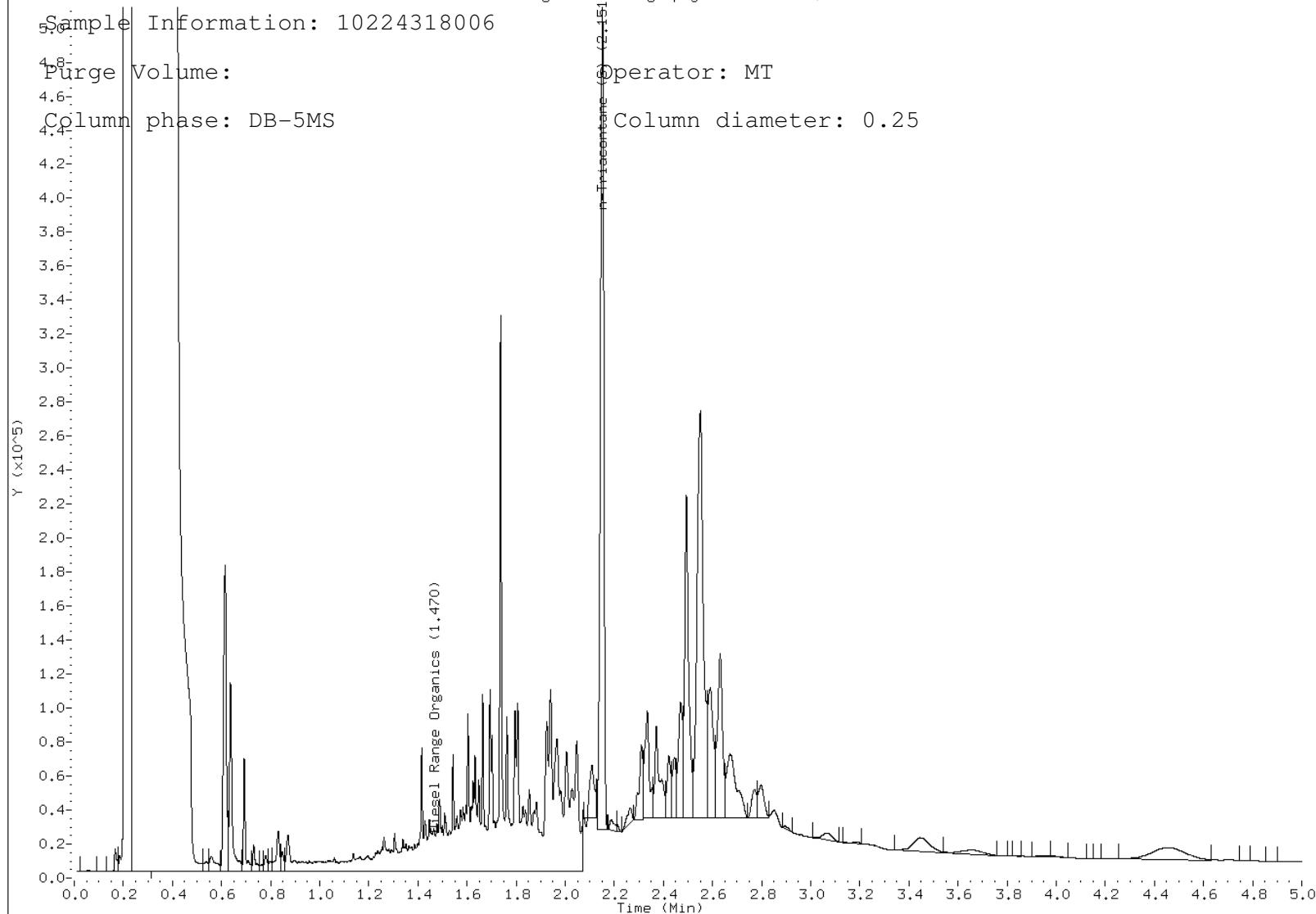
Sample Information: 10224318006

Purge Volume:

Operator: MT

Column phase: DB-5MS

Column diameter: 0.25



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page :	1	Of	1
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Section A
Required Client Information:

Company:	Short, Elliott & Hendrickson	Report To:	jkenny@sehinc.com	Attention:	
Address:	3535 Vadnais Center Drive	Copy To:	gahl@sehinc.com	Company Name:	
Saint Paul, MN 55110		3535 Vadnais Center Drive, Saint Paul, MN 55110		Address:	
Email To:	jkenny@sehinc.com	Purchaser Order No.:		Page Quote Reference:	
Phone:	651-490-2044	Client Project ID:	MCES 123840	Pace Project Manager:	Davy, Carol
Requested Due Date/TAT:	10 Day (Default)	Container Order Number:		Pace Profile #:	

Section C
Invoice Information:

Regulatory Agency	
State / Location	Minnesota

ITEM#	SAMPLE ID				MATRIX CODE (see valid codes to left)	Preservatives	# OF CONTAINERS	Analyses Test	Y/N	Requested Analysis Filtered (Y/N)
	One Character per box. (A-Z, 0-9, -,)	Sample Ids must be unique	Drinking Water	Water Product						
		CODE DW	CODE WW	CODE P	CODE OL	CODE WWP	CODE AR	CODE TS		
1	HA-16-25	SL G							X X X X X X	
2	HA-16-20	SL G							X X X X X X	001
3	HA-17-2.5	SL G							X X X X X X	002
4	HA-17-12	SL G							X X X X X X	003
5	HA-18-3	SL G							X X X X X X	004
6	HA-18-8	SL G							X X X X X X	005
7	HA-18-16	SL G							X X X X X X	006
8										
9										
10										
11										
12										
ADDITIONAL COMMENTS				RElinquished By / AFFILIATION	DATE	TIME	Accepted By / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
If there is a hit on DRC, analyze for PCBs				Gahl, SEH	4/3/13	1545	J. S. Pacer	4/3/13	1545	32 Y N
HOLD samples HA-16-20 and HA-18-16 until contacted by SEH				J. S. Pacer	4/3/13	1645	J. S. Pacer	4/3/13	1645	32 Y N
SAMPLER NAME AND SIGNATURE										
PRINT Name of SAMPLER:				Greg Ahl						
SIGNATURE of SAMPLER:				Greg Ahl						
TEMP in C				DATE Signed: 4/3/2013						
Received on Ice (Y/N)										
Custody Sealed Cooler (Y/N)										
Samples Intact (Y/N)										



Sample Condition
Upon Receipt

Client Name:

Project #:

SEH

WO# : 10224318

Courier: FedEx UPS USPS Client
 Commercial Pace Other: _____



10224318

Tracking Number:

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No Optional: Proj. Due Date: Proj. Name:

Packing Material: Bubble Wrap Bubble Bags None Other: _____ Temp Blank? Yes No

Thermom. Used: 688A912167504 80512447 72337080 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temp Read (°C): *5.2* Cooler Temp Corrected (°C): *5.2* Biological Tissue Frozen? Yes No
Temp should be above freezing to 6°C Correction Factor: *1.0* Date and Initials of Person Examining Contents: *DE 4/3/13*

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	7.
Sufficient Volume?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	8.
Correct Containers Used?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11.
Sample Labels Match COC?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	12.
-Includes Date/Time/ID/Analysis Matrix: <i>SL</i>				
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>12)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Exceptions VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	14.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	15.
Pace Trip Blank Lot # (if purchased): <i>112612-3</i>				
Initial when completed: <i>DE 4/3/13</i>				Lot # of added preservative:

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____
Comments/Resolution: _____

Project Manager Review: *Open*

Date: *4/4/13*

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



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